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Annual Report

of the

Health Department

Corporation of Madras

For the Year

1934

MADRAS:
VICTORIA PRESS.

1935

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Introduction.

Commissioner,
Sir,

I submit herewith the annual report relating to the health of the City of Madras during the year 1934.

I desire to acknowledge figures and information for inclusion in the report from the Lady Superintendent, Child Welfare Scheme, Public Analyst to the Corporation of Madras, Water Analyst, School Medical Inspectors, Veterinary Officer and Medical Officers in charge of Malaria and Infectious Diseases Hospitals. My thanks are due to the Heads of several voluntary hospitals and dispensaries and other charitable institutions who have supplied information for incorporation in the report.

A perusal of the information scattered throughout the following pages embodying the activities of the several branches of the Public Health Administration in the City affords a good indication of the development and co-operation that exist amongst them.

A review of the health of Madras during any particular period should contain a discussion of the total population, birth-rate and death-rate as they form a true basis of the extent of public health and other activities.

Population:—The estimated mid-year population of 1934 was 692,336. The several rates of Vital Statistics have been calculated for the purpose of comparison on the basis of the estimated population.

Births:—The total number of births, 28,149, shows a decrease of 384 as compared with the births in 1933, and an excess of 1,938 over the average for the quinquennium 1929–1933. The birth-rate was 40·7 as compared with 42·1 in 1933. It has to be noted that there is always some amount of under-estimation in the birth-rates recorded year by year owing to the fact that a fair number of married women go to the mofussil for confinement according to the custom prevailing among certain classes of the population and these births are not registered in the City. This view is strengthened by the fact that a large number of unprotected children who are born outside the City are traced for vaccination purposes year after year.

Deaths:—The total number of deaths, 23,659, shows a decrease of 841 deaths. The death-rate for the year was 34·2 as compared with 36·1 for the previous year. It should, however, be noted that the total number of deaths includes as many as 1,236 deaths of non-residents in public hospitals and institutions. An excess of 4,490 births over deaths was recorded which is the 'natural increase' for the year under report. This excess of births over deaths was equivalent to 6·5 per thousand of the population calculated on the estimated population of 1934 and was recorded 6 times in succession—a remarkable event in the progress of the health of the City.

Divisional Deaths:—The highest mortality (44·4) was recorded in Mirsahibpet Division as in the previous year while the lowest was recorded in Muthialpet (22.0). Nine areas, viz., Tondiarpet, Washermanpet, Korukupet, Choolai, Purasawalkam, Chintadripet, Tiruvateeswaranpet, Amir Mahal and Mirsahibpet returned rates above the annual death-rate for the whole City. These divisions are inhabited by poor labouring classes without adequate housing accommodation. A substantial reduction in mortality is not possible without relieving congestion.

Infantile Mortality:—Deaths among infants under 1 year of age numbered 6,424, being 1,116 less than that of the preceding year and giving an infantile mortality rate of 228·2 as against 264·3 in 1933. This is the lowest infantile mortality rate ever recorded in the city, and is no doubt due to the good work done by the Child Welfare Scheme. Nevertheless, it

is distressing that the deaths of infants under one year of age account for more than a quarter of the total number of deaths in the City. Infant mortality rate is always high in a community with high birth-rate. The position is rendered worse by the low standard of living and the extremely unsatisfactory housing conditions of a large section of the population, viz., the poorer classes. Adi-Dravidas and Kammalars, for instance, have recorded high infantile mortality rates. A reference has been made in the report for 1933 about the high infantile mortality and the appalling wastage of infant life resulting from the fact that more children are born year after year than can be warranted by the economic conditions of the majority of parents. It is the duty of all Social Welfare Organizations in the City to urge the extreme necessity of postponing the age of marriage. The problem is one of national importance and no efforts can be spared that will promote the economic condition of the people and their standard of living.

Infectious Diseases:—Despite the slight increase of cholera, malaria and typhoid, the year under report was comparatively free from serious epidemics. Mortality from diarrhoea shows appreciable reduction. There was a sharp outbreak of cholera in the third quarter of the year which was brought under control under efficient measures.

School Medical Service:—The record of work of school medical inspectors and inspectresses shows that they have not only detected defects but have worked assiduously in remedying specified defects with satisfactory results. 1,792 under-nourished children improved after treatment. 78 children had their tonsils removed. 2,008 children with enlarged tonsils improved after medical treatment. A scientific survey of children affected with leprosy in the Corporation Schools was continued as in the previous year. In addition to the 324 children found having leprosy last year, 163 new cases amongst entrants were detected. Progress of diseases was arrested in 5 cases and 46 children showed improvement after a prolonged course. Indifference of parents is a serious handicap. The figures noted above indicate that leprosy is gaining ground in the community, and our methods of control are not adequate to meet the situation. The poverty of the parents is such that they cannot take their children regularly to the Clinics. No attention is paid to the nutritional condition of these sufferers. Open air schools with arrangement for boarding, lodging and treatment for these cases will be a move in the right direction.

Food Inspection:—The work of Food Inspectors and the Public Analyst shows increased activity. Over 1,000 samples have been dealt with as against 667 of the previous year. Adulteration of milk and ghee has not stopped. Dishonest vendors making large profits can easily pay a small fine from a negligible portion of their illegitimate earnings. It is for this reason that deterrent fines are imposed in Food Adulteration cases in more advanced countries. It is absolutely necessary to inflict heavy fines in repeated convictions. To achieve better results a much larger number of samples have to be taken at more frequent intervals. This is not possible unless the present laboratory is moved to a more spacious building. A proposal is being placed before the authorities to sanction the construction of a Public Health Laboratory for the City wherein the entire analytical and scientific work of the Corporation can be undertaken with greater efficiency.

Sanitary Improvements:—The Scheme of laying sewers and the compulsory introduction of flush-out latrines in dwelling houses continued to be in force during the year. 37,198 feet of sewers were laid. 1,423 flush-out latrines were installed in dwelling houses. 3,305 dwelling houses were rendered fit for human habitation as a result of the action taken by House Inspection staff. 45 stalls were added to the newly-constructed Fruit Market. All the public and private markets in the City received the vigilant attention of the staff. Conservancy of 3 private markets was managed departmentally. 13 ponds and 19 wells were filled up. 22 pits and

20 low-lying lands were reclaimed in addition to the extensive reclamation work that was in progress in old Choolai Burial Ground, Peoples Park, etc.

Malaria:—The work of this Section was re-organised. Greater attention was paid to survey and microscopical work than in the previous year. The results of the investigation show that there is potent source of infection in Madras which may take a turn for the worse unless effective and constant measures are taken to keep the Malaria Carriers in check. The recent experience of Colombo and Travancore should put us on our guard. The increase in the mortality from malaria and the large number of malaria cases in the public dispensaries and other institutions indicate the existence of the danger. Additional staff and coolies and better facilities for microscopical work are urgently needed.

Conservancy:—The scheme for the construction of more public flush-out latrines continued in progress. 20 new public flush-out latrines were installed. 4 latrines were extended. 2 masonry and 1 sanded latrine were converted into flushout latrines. Six additional lorries were purchased. The work of Conservancy Section continued to be satisfactory throughout the year.

Housing:—The outstanding feature of the Vital Statistics of the City during recent years is the large increase in the population. The census of 1931 showed an increase of 22·8% during the last decennium. The steady increase of population by the excess of births over deaths as noted already has increased congestion to an unprecedented degree. Expansion of the City under these circumstances is inevitable. In the absence of well-planned schemes to meet the demand more and more slums are coming into existence. A comprehensive programme for slum clearance and eradication of overcrowding was therefore urged as the paramount need in the last report.

I am glad the question received the serious attention of the authorities and the public during the year under report. The Ad Hoc Committee appointed by the Council went into the question fully and produced a comprehensive and valuable report which was approved by the Council on 11-12-34. Further action on the recommendation of the Housing Committee is now pending orders of the Government. The two old schemes for slum clearance and construction of model tenements—one at the Commissariat Cherry and the other at Boghipalayam—were in progress. 55 single room tenements have been completed in Commissariat Cherry during the year. The Boghipalayam scheme at Perambore is nearing completion. It had done away with one of the worst slums in Madras and has brought fresh life and health to an extensive division. The whole area between Besant Road, Pulianthope Road and the Anti-Malarial drain on the east should be brought under the scheme in order to reap the full benefits thereof.

In conclusion, I desire to record my appreciation of the work done by Corporation Health Services. The amount of work noted here would never have been possible, but for the high sense of duty of the clerical and outdoor staff of the department.

Madras,
Dated 1-10-1935.

C. S. GOVINDA PILLAI,
M. B. Ch. B., L. R. C. P. & S., D. P. H. (Edin.)
Health Officer.

Forwarded to the Council

J. HUSSAIN,
2-10-35.
Commissioner.

Summary of Vital Statistics for 1934.

Area	...	19,728 acres (29·41 sq. miles).
Population (Census 1931)	...	6,47,230
Population (Estimated to middle of year 1934)	...	6,92,336
Average density per acre	...	35·1
Inhabited Houses (Census 1931)	...	73,845

Live Births	... 28,149	Birth-rate	...	40·7	per 1000 estimated population.
Deaths (all causes)	... 23,659	Death-rate	...	34·2	do.
Natural increase	... 4,490	Rate of increase	...	6·5	do.
Deaths (under 1 year of age)	... 6,424	Infantile mortality rate	...	228·2	per 1000 births.
Deaths from child birth	... 313	Maternal mortality rate	...	11·1	do.

Deaths from Principal Diseases.

		No.	Rate per 1000 estimated population.
Cholera	...	166	0·24
Diarrhoea and Dysentery	...	2008	2·9
Small-pox	...	131	0·19
Measles	...	7	0·01
Malaria	...	193	0·28
Enteric Fever	...	145	0·2
Phthisis	...	971	1·4
Respiratory diseases	...	5783	8·4

Vital Statistics.

Area and Population.—The area of the City is 19,728 acres. The mid-year population for 1934 worked out by the method of geometrical progression is estimated to be 6,92,336, the 1931 census population being 6,47,230. The estimated population has been used for the calculation of different rates in the report. But the statistical statements appended to this report have been worked out as usual on the census population.

Meteorology.—The Annual Form A furnishes the atmospheric conditions recorded during 1934.

The total rainfall was 36·66 inches during the year—3·52 inches less than in the previous year 1933. It is the lowest recorded since 1928. The highest rainfall was in October (16·82 inches) and the lowest in April (0·74 inches). There was no rainfall in February, March and May. The last quarter of the year recorded the highest rainfall of 20·87 inches against 30·58 inches in the same quarter of 1933. There was rainfall on 95 days during the year.

The climatic conditions and the daily mean births and deaths in Madras during 1934 are illustrated in Diagram I.

Registration staff.—Seventeen Sub-Assistant Surgeons attended to the registration of births and deaths during the year 1934.

Births and Birth-rate.—The number of live births recorded during 1934 was 28,149–a decrease of 384 births from the preceding year 1933 and an excess of 1938 births over the average for the quinquennium 1929–33.

The birth-rate calculated on the estimated population was 40·7 per mille as compared with 42·1 per mille in 1933. The birth-rate calculated on the census population was 43·5 as against 44·1 in 1933, the average rate for the previous five years (1929–33) being 40·5.

Of the total births, 14,401 were males and 13,748 females; thus there were 105 male births for every 100 female births.

Illegitimate Births.—The number of illegitimate births registered was 231 or 0·8% of the total births in 1934 as compared with 368 or 1·2% in 1933.

Births in different quarters of 1934.—A comparative statement of births registered in each quarter of 1933, 1934 and the quarterly average for the quinquennium 1929–33 is furnished below:—

Year.	1st quarter.	2nd quarter.	3rd quarter.	4th quarter.
1929–33	5543	6491	6905	7272
1933	6067	6896	7510	8060
1934	6214	6925	7302	7708

Birth-rates in Divisions.—The Annual Form No. 1 gives the births and birth-rates registered in the various divisions. The highest rate was recorded by the Egmore division as usual (53·9). This is accounted for by the presence of the Government Hospital for Women and Children. The lowest rate was returned by the Sowcarpet division (25·9).

Birth-rates in Communities.—The birth-rates in the principal communities during the year are as follows:—

Communities.		Rate per 1000 estimated population in each community.
Europeans	...	13·1
Anglo-Indians	...	33·4
Indian Christians	...	33·0
Hindus	...	41·7
Mahammedans	...	41·7
Others	...	1·8
All Communities	...	40·7

Table C appended to this report gives the number of births and birth-rates in the above communities according to the census population.

Still Births.—The number of still births registered during the year was 1378 as against 1380 in 1933. It represented 49·0 per 1000 live births as compared with 48·4 in 1933.

Deaths and Death-rates.—The total deaths registered during the year under report numbered 23,659 against 24,500 in 1933—a decrease of 841 deaths, the average number of deaths during the past five years 1929–33 being 23,040 Of the total deaths, 22,423 deaths were those of residents and 1,236 were those of non-residents, chiefly occurring in Public Hospitals, Institutions etc.

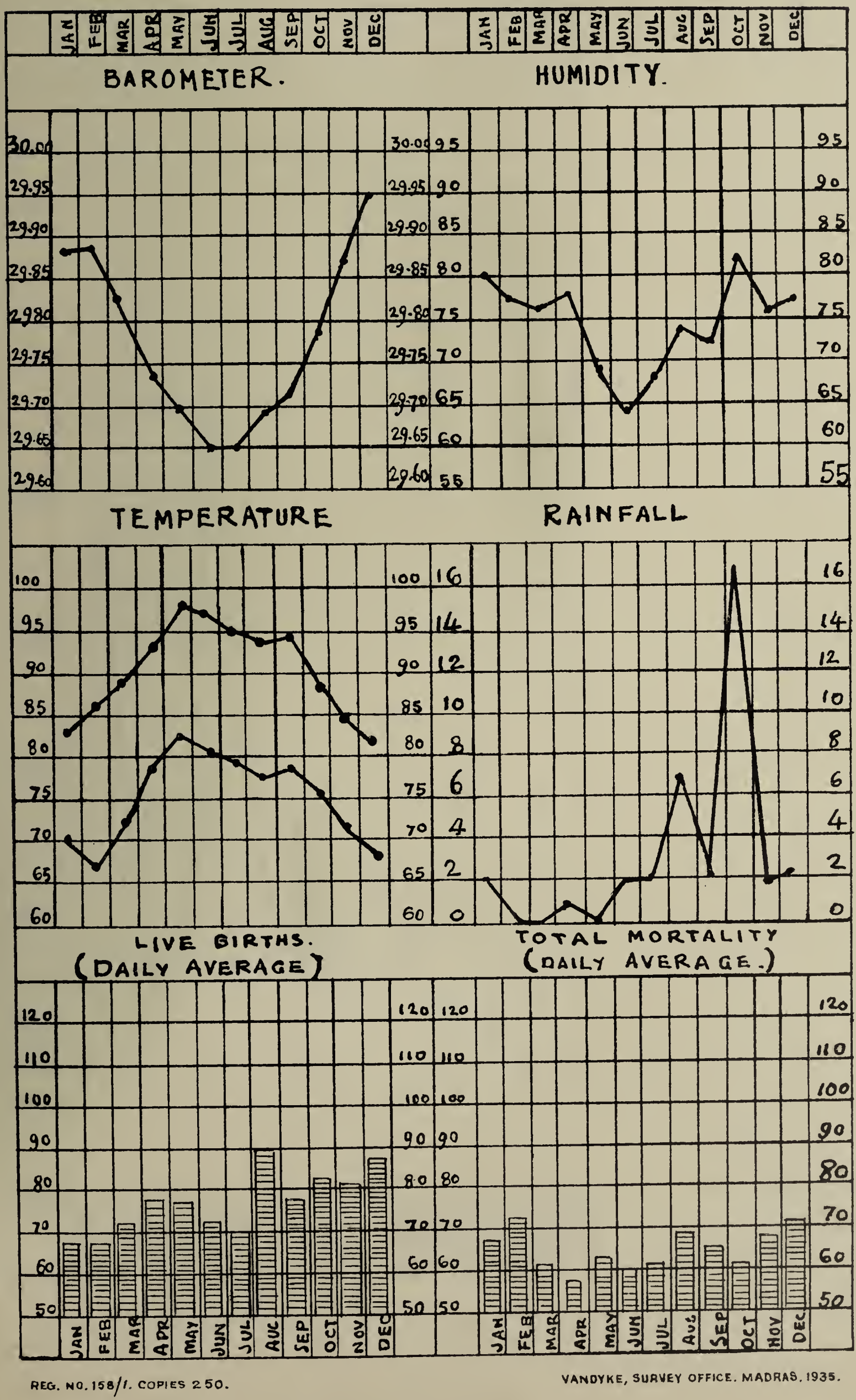
Calculated on the estimated population the annual death-rate was 34·2 per mille as compared with 36·1 per mille in the previous year 1933. Excluding the deaths of non-residents the death-rate for the year was 32·4 per mille. Calculated on the census population the rate was 36·6 as compared with 37·9 in 1933 and 35·6 being the quinquennial average (1929–33).

During the year under report an excess of 4,490 births over deaths was recorded as compared with 4,033 in 1933, the rate of natural increase being 6·5 and 6·0 per mille of estimated population in 1934 and 1933 respectively. A statement showing the births and deaths recorded in the City for a period of 35 years is given below with reference to the natural increase.

Years.	Births.	Deaths.	Natural Increase or Decrease.	Years.	Births.	Deaths.	Natural Increase or Decrease.
1900	20672	20937	— 265	1918	19897	31262	—11365
1901	18872	28031	—9159	1919	18936	27187	— 8251
1902	17743	21395	—3652	1920	21396	21418	— 22
1903	19830	19205	+ 625	1921	19187	20268	— 1081
1904	20439	19305	+1134	1922	21650	22475	— 825
1905	23263	30060	—6797	1923	22975	19933	+ 3042
1906	18608	23749	—5141	1924	23275	21960	+ 1315
1907	19808	20638	— 830	1925	23070	25000	— 1930
1908	19980	22285	—2305	1926	22000	23776	— 1776
1909	18981	19354	— 373	1927	24760	22364	+ 2396
1910	19340	20312	— 972	1928	23729	26715	— 2986
1911	19735	21771	—2036	1929	23124	22415	+ 709
1912	20099	20132	— 33	1930	25662	22839	+ 2823
1913	19470	20675	—1205	1931	25738	23162	+ 2576
1914	18241	24174	—5933	1932	27996	22290	+ 5706
1915	18331	18688	— 357	1933	28533	24500	+ 4033
1916	21675	17872	+3803	1934	28149	23659	+ 4490
1917	23296	19917	+3379				

DIAGRAM. I

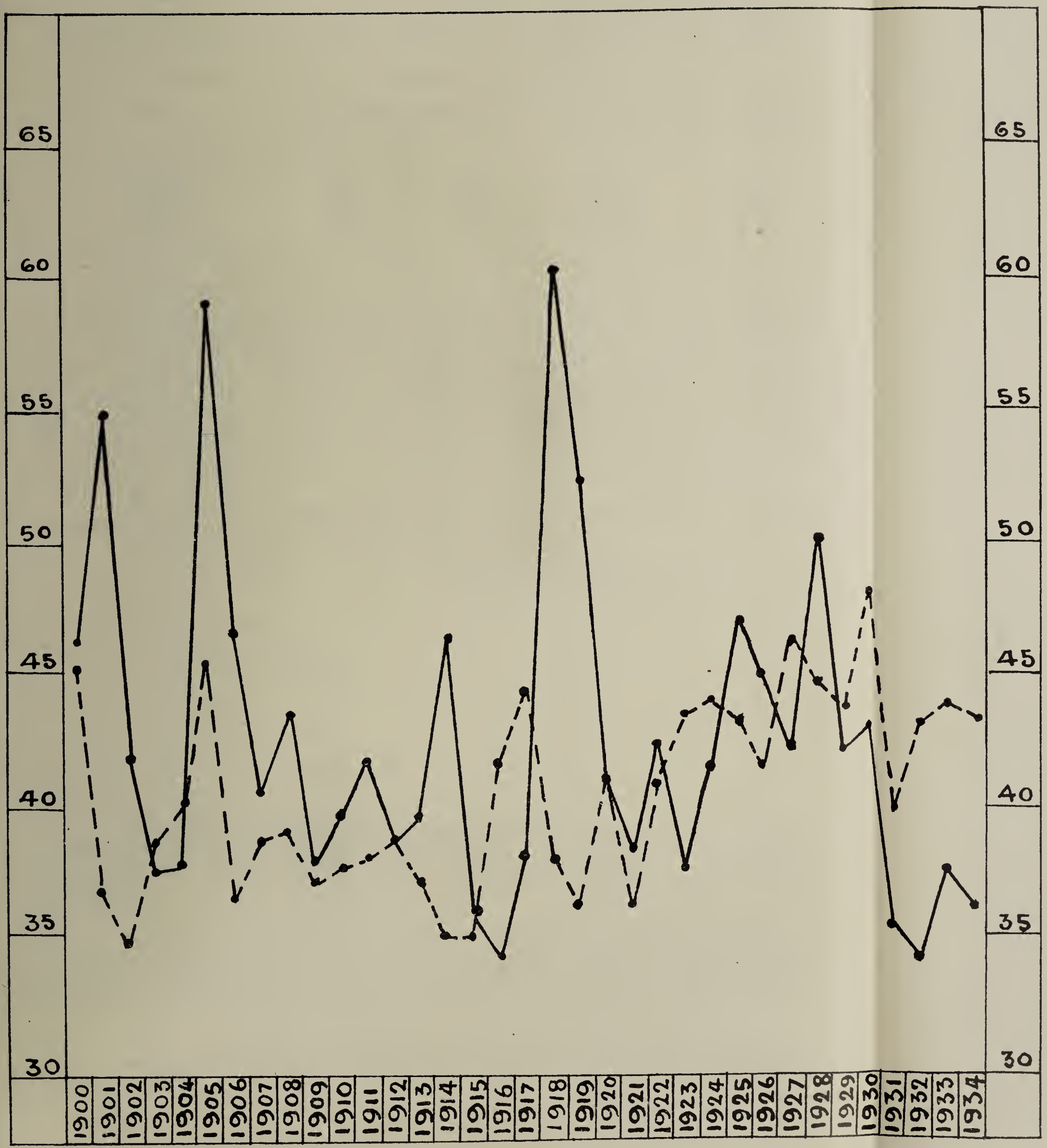
DAILY MEAN BIRTHS. DEATHS AND CLIMATIC CONDITIONS IN MADRAS. IN 1934.



REG. NO. 158/1. COPIES 250.

VANDYKE, SURVEY OFFICE. MADRAS. 1935.

GRAPH 2
CITY OF MADRAS
BIRTH AND DEATH RATES 1900-1934
RATE PER 1000 POPULATION. (CENSUS)



REG. NO. 158/2. COPIES 250.

VANDYKE, SURVEY OFFICE, MADRAS. 1935.

The above statement reveals that prior to 1929 the City recorded natural decrease *i.e.* excess of deaths over births for several successive years, interrupted by a year or two of natural increase here and there. Graph No. 2 represents this fact with reference to birth and death-rates from 1900 to 1934. The continuous record of natural increase for a period of 6 years from 1929 should be considered in itself a remarkable event in the health of the City.

In 27 Municipal divisions the birth-rate exceeded the death-rate.

Deaths in different quarters of the year:—The following statement furnishes the number of deaths registered in the different quarters of 1933, 1934 and the average for quinquennium 1929–33 :—

Year.	1st quarter.	2nd quarter.	3rd quarter.	4th quarter.
1929–33	6102	5507	5116	6315
1933	6387	5868	5313	6932
1934	6026	5465	5971	6197

Death-rates in divisions:—Annual Form II gives in detail the number of deaths and death-rates in the various divisions. The highest rate was recorded by Mirsahibpet division (44·4) followed by Washermenpet division (42·2). The lowest rate was returned by Muthialpet division (22·0). Nine divisions *viz.* Tondiarpet (39·2), Washermenpet (42·2), Korukupet (41·7), Choolai (41·6), Purasawalkam (38·9), Chintadripet (36·9), Tiruvateeswaranpet (37·5), Amir Mahal (40·9) and Mirsahibpet (44·4) returned rates above the rate for the whole City. These divisions contain a large proportion of poorer classes among whom the death-rate is generally high.

Death-rates in communities.—The different communities recorded the following death-rates during the year under report:—

Community.		Rates per 1000 estimated population in each community.
Europeans	...	5·8
Anglo-Indians	...	19·6
Indian Christians	...	24·3
Hindus	...	35·3
Mahammedans	...	36·6
All communities	...	34·2

The Mahammedan and European communities as usual recorded the highest and the lowest rates respectively. Table C gives the statement of deaths and death-rates in these communities based on the census population.

Age and sex distribution of deaths:—Of the total deaths registered in 1934, 12,432 were among males and 11,227 among females, the ratio being 110 males to100 females against 108 males in 1933. The deaths among males predominated over the female deaths in 23 divisions.

The death-rates among males and females were 34·0 and 34·4 per mille of estimated population respectively against 35·5 and 36·8 respectively in the preceding year 1933.

The following table furnishes the number of deaths in each quarter of 1934 and the percentage of deaths to the total deaths in each age group:—

Age groups.	No. of deaths registered in quarter ending.				Year 1934.	Percentage to total deaths.
	March.	June.	September.	December.		
Under 1 Year ...	1683	1603	1586	1552	6424	27·2
1 & Under 5 Years	889	855	1128	1021	3893	16·5
5 & „ 10 „	194	168	251	271	884	3·7
10 & „ 15 „	110	112	112	135	469	2·0
15 & „ 20 „	177	170	179	166	692	2·9
20 & „ 30 „	520	483	505	527	2035	8·6
30 & „ 40 „	473	421	437	498	1829	7·7
40 & „ 50 „	435	378	421	455	1689	7·1
50 & „ 60 „	449	393	381	441	1664	7·0
60 and above.	1096	882	971	1131	4080	17·3
All ages ...	6026	5465	5971	6197	23659	100·0

A statement of death-rates in each sex and age-group is given below. The death-rates by sexes for the different age-periods were calculated on the estimated mid-year population for 1934.

Age periods.	Death-rate in 1934 per 1000 estimated population in each age group.		
	Males.	Females.	Both sexes.
Under 1 Year ...	245·8*	209·8*	228·2*
1 & Under 5 Years	56·7	57·6	57·1
5 & „ 10 „	12·0	12·0	12·0
10 & „ 15 „	6·2	7·0	6·6
15 & „ 20 „	7·2	11·6	9·4
20 & „ 30 „	12·2	15·1	13·6
30 & „ 40 „	15·4	17·5	16·3
40 & „ 50 „	25·5	23·7	24·7
50 & „ 60 „	49·5	42·9	46·5
60 and above.	185·4	213·7	198·0

* Calculated on 1000 births registered during the year.

The trend of mortality is the same as in previous years. The highest rates of mortality occur at both ends of life and the lowest in the age period 10 to 15 years. The higher death-rates among females than among males in the age periods 15 to 40 years are attributed to the greater risk of death to which women are exposed during the child bearing ages.

Infantile mortality.—During the year under report, the deaths of 6424 infants under one year of age were registered. Of these, 5304 deaths occurred among infants born in the City and 1120 deaths among infants born in the moffusil.

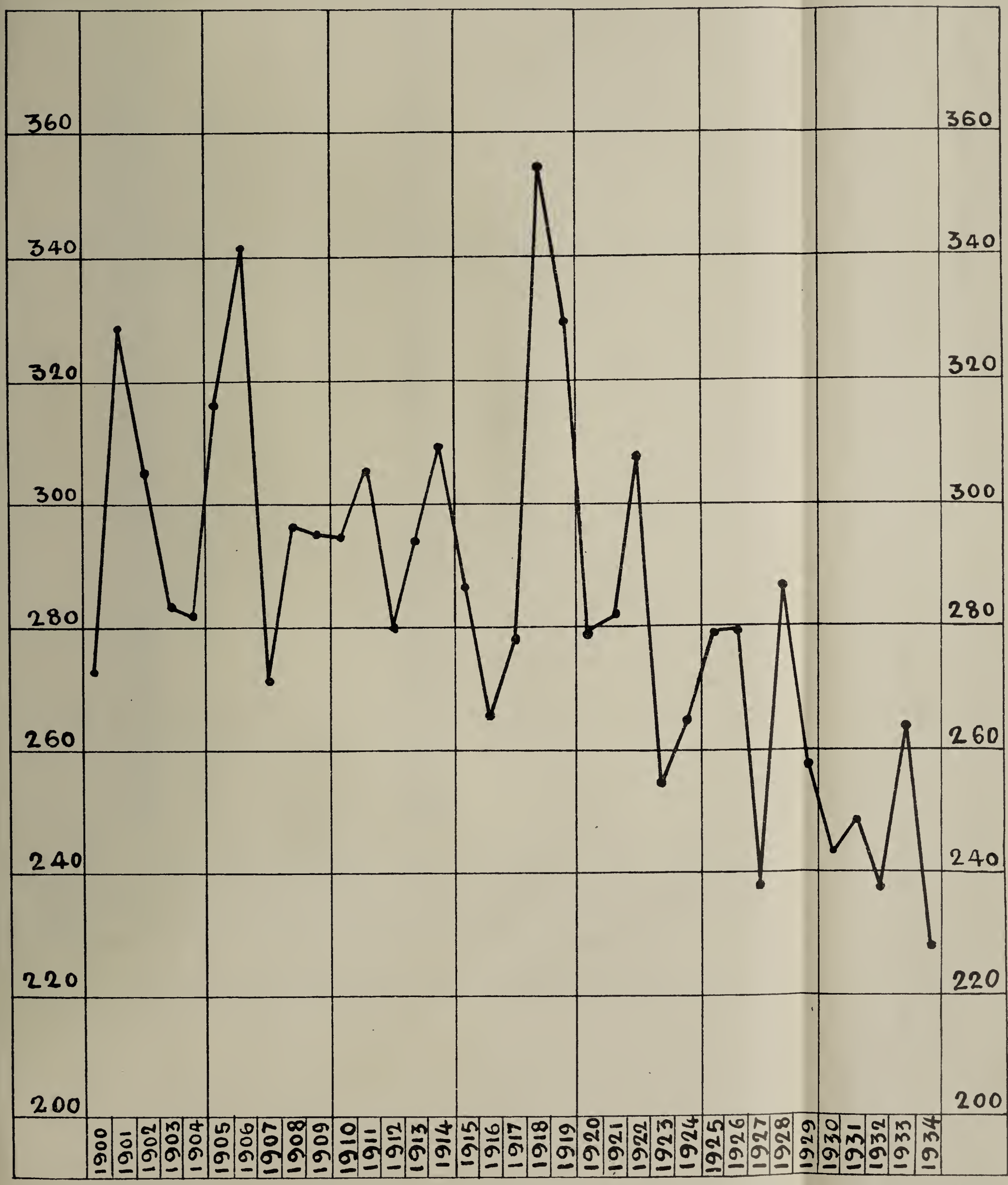
The infantile mortality rate per 1000 live births during the year was 228·2 as compared with 264·3 in 1933. Excluding the deaths of infants born outside the City, the infantile mortality rate would be 188·4.

GRAPH. 3

CITY OF MADRAS

INFANTILE MORTALITY RATES 1900-1934.

RATE PER 1000 LIVE BIRTHS.



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VANDYKE, SURVEY OFFICE, MADRAS. 1935.

The infantile mortality rates recorded in the City during the last 35 years are as follows :—

Years.		Rate per 1000 births.	Average for 10 years.
1900	...	272·0	
1901	...	328·3	
1902	...	303·9	
1903	...	283·3	
1904	...	280·9	
1905	...	316·3	298·8
1906	...	341·2	
1907	...	270·7	
1908	...	296·3	
1909	...	295·0	
1910	...	294·1	
1911	...	305·4	
1912	...	280·4	
1913	...	293·4	
1914	...	308·9	
1915	...	286·1	299·5
1916	...	265·1	
1917	...	277·3	
1918	...	355·2	
1919	...	329·0	
1920	....	279·3	
1921	...	281·9	
1922	...	308·0	
1923	...	254·0	
1924	...	264·1	272·6
1925	...	278·8	
1926	...	279·3	
1927	...	237·6	
1928	...	286·8	
1929	...	256·6	
1930	...	243·9	
1931	...	248·3	
1932	...	236·5	
1933	...	264·3	
1934	...	228·2	

A reference to the above table and graph III will show that though the rate has fluctuated in individual years, it shows an appreciable decline. Compared with the decennial average of 272·6 during 1920–29 the reduction in the rate for the years following 1930 is encouraging.

The infantile mortality rate for the year under report is the lowest in the records of the City's Vital Statistics.

Age & Causes of Death:—The following statement furnishes the principal causes of infantile deaths under different age periods:—

Age Periods.	Small-pox.	Measles.	Malaria.	Other fevers.	Dysentery and Diarrhoea.	Premature Birth.	Debility.	Nervous system	Respiratory Diseases.	Other causes.	Total.	Percentage of deaths to total deaths.
Under 7 days ...	...	...	...	6	9	1111	3	55	36	248	1468	22·8
7 days & under 1 month ...	...	1	...	12	32	508	9	66	50	195	873	13·6
1 month & under 4 months...	5	1	...	72	85	191	18	166	387	159	1084	16·9
4 months & under 7 months.	6	1	...	104	108	65	7	86	505	267	1149	17·9
7 months& under 10 months.	2	...	1	156	106	51	1	38	759	204	1318	20·5
10 months&under 1 year ...	4	1	...	42	81	...	2	19	231	152	532	8·3
Total. ...	17	4	1	392	421	1926	40	430	1968	1225	6424	100·0

53% of the total deaths occurred during the first 4 months of life. Of these, 22.8% was during the first week.

Diagram IV shows the principal causes of infantile deaths in 1934.

Infant deaths by months:—Table E in the appendix gives in detail the number of infant deaths and the infantile mortality rates according to months as compared with 1933. The highest infantile mortality rate (298.1 per 1000 births) was recorded in February and the lowest (184·8 per 1000 births) in October.

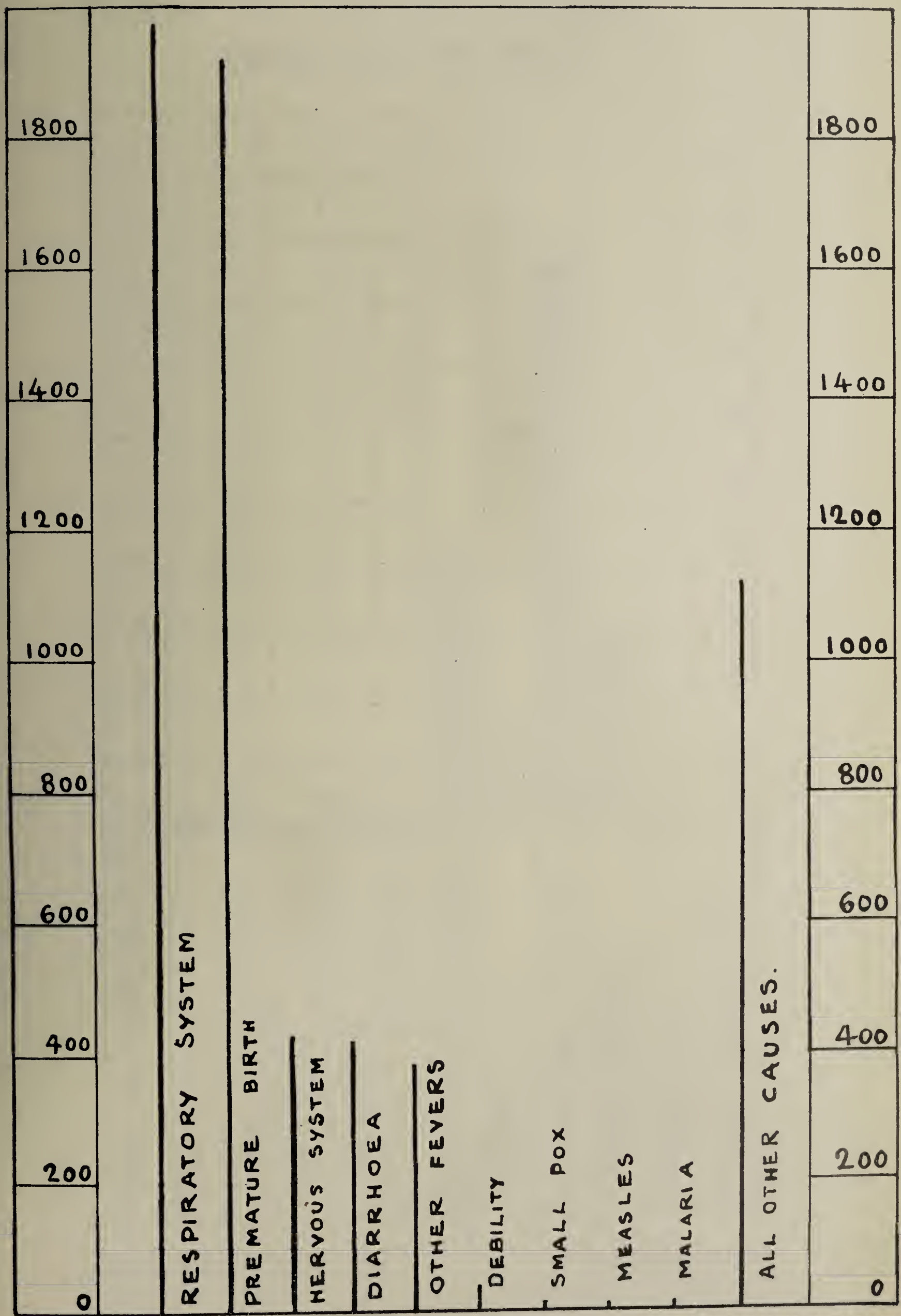
Infantile mortality rates in divisions:—Table F furnishes the infantile deaths and rates recorded in the various divisions compared with 1933. The highest rate was returned by the Kothwal Bazaar division (288·0) and the lowest by the Royapettah division (172·3). 27 divisions recorded decrease as compared with the previous year 1933.

Infantile mortality rates in communities:—The infantile death-rates in different communities during 1934 are as follows :—

Community	Rate per 1000 births in each community.
Europeans	40·0
Anglo-Indians	103·7
Indian Christians	145·9
Hindus	235·0
Mahammedans	233·8
All communities.	228·2

CITY OF MADRAS

CHART 4 SHOWING THE PRINCIPAL CAUSES OF DEATHS OF INFANTS UNDER ONE YEAR OF AGE. DURING 1934.

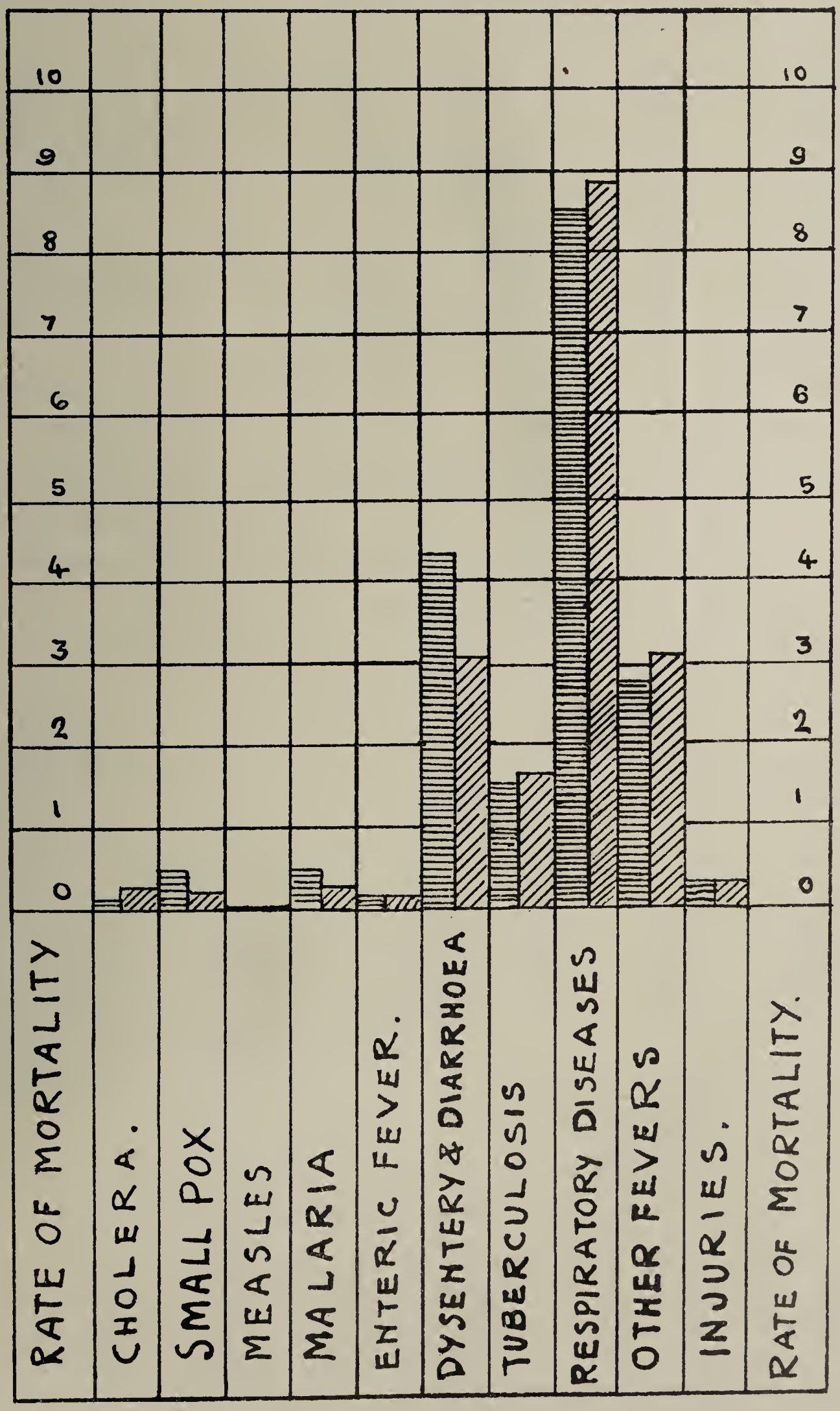


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DIAGRAM. V

DEATH RATES FROM PRINCIPAL CAUSES IN 1934 AND THE QUINQUENNIAL AVERAGES IN 1929 - 33.



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The births, infant deaths and infantile death-rates in the principal sub-castes of the Hindu community for 1934 are set forth in the table below :—

Caste.	Births in each caste.	Infantile deaths in each caste.	Rates per 1000 births in each caste.
Brahmin ...	2262	420	185·7
Chetty ...	1766	428	242·4
Vellala or Mudaliar ...	3304	683	206·7
Balija or Naidu ...	2107	558	264·8
Vannia or Naicker ..	3406	836	245·4
Adi Dravida ...	3134	1011	322·6
Patnavar ...	348	74	212·6
Yadavas or Edayar ...	965	258	267·4
Visvakarma Brahmin or Kammalar	802	232	289·3
Others ...	5019	931	185·5
All Hindus ...	23113	5431	235·0

Principal causes of death :—A comparative table of the principal causes of death in 1933, 1934 and the average for the quinquennial period 1929–33 is set forth below :—

Causes of death.	Deaths in		Average of years 1929–33.
	1933.	1934.	
Cholera ...	62	166	56
Dysentery & Diarrhoea ...	2670	2008	2849
Plague ...	...	...	0·2
Small-pox ...	837	131	346
Measles ...	44	7	29
Malaria ...	140	193	309
Enteric Fever ...	90	145	123
Other Fevers ...	2095	2097	1835
General Respiratory diseases ...	5967	5783	5560
Tuberculosis ...	1011	1122	1079
Deaths from child birth ...	331	313	308
All other causes, including deaths from injuries ...	11253	11694	10546
Total ...	24500	23659	23040

The diseases are dealt with in detail below.

Cholera :—362 attacks and 166 deaths from cholera occurred during the year as against 133 attacks and 62 deaths in 1933. The annual death-rate was 0·24 per mille of estimated population as against 0·09 in the previous year. The death-rates calculated on census population in 1933 and 1934 were 0·1 and 0·3 per mille, the quinquennial average being 0·09.

The statistics of deaths from cholera for the past 10 years are given below :—

Year.	Deaths.	Year.	Deaths.
1925	203	1930	43
1926	98	1931	153
1927	512	1932	5
1928	708	1933	62
1929	16	1934	166

The infection that set in during the last quarter of 1933 continued during the year under report. Though it showed signs of abatement in the earlier months, another out-break occurred about the middle of the year and continued till the end of the year.

All the months of the year except April reported cases. The highest number of attacks and deaths occurred in August (131 attacks and 50 deaths) followed by November (57 attacks and 35 deaths) and September (54 attacks and 28 deaths). There was only one attack and no death in May. 20 cases of cholera were imported into the City during the year.

The number of attacks and deaths was distributed as follows during the different quarters of the year :—

Quarters.	Attacks.	Deaths.
1st quarter	33	12
2nd quarter	26	15
3rd quarter	209	87
4th quarter	94	52
	362	166

All the divisions except Sowcarpet and Peddunaikenpet division were affected. The highest number of attacks took place in Royapettah (39). The Annual Form VI gives the number of deaths and death-rates in the various divisions during the year. The death-rate was highest in Mirsahibpet (0·8). Muthialpet, Kothwal Bazaar, Esplanade, Park Town including Sowcarpet and Peddunaikenpet divisions reported no deaths from cholera.

Effective measures were adopted to check the prevalence of the disease. 62,318 anti-cholera inoculations were performed. The City water supply was kept under careful watch and was found to be absolutely free from infection. An elaborate campaign was conducted as in the previous year against articles of food exposed for sale on road sides and unauthorised places. Special attention was paid to the conservancy of the infected areas.

Of the 362 cases of cholera that occurred during the year, 357 cases were admitted and treated in the two Isolation Hospitals maintained by the Corporation. 2 ambulance cars maintained by the Corporation were made use of for prompt removal of patients free of charge. Effective isolation minimised the chances for the spread of infection. The hospital staff was suitably augmented to meet the emergency. The number of cholera cases treated in the hospitals and the result of treatment are given in the reports of the Infectious Diseases Hospitals.

Diarrhoea & Dysentery :—Diarrhoea and dysentery accounted for 2008 deaths with a death-rate of 2·9 per mille of estimated population as against 2670 deaths with a death-rate of 3·9 per mille in 1933. Calculated on the census population the death-rate was 3·1 in 1934 and 4·1 in 1933, the quinquennial average being 4·4.

The mortality from diarrhoea & dysentery from 1925 to 1934 is shown below :—

Year.	Deaths.	Year.	Deaths.
1925	4031	1930	3056
1926	3867	1931	2746
1927	3263	1932	2644
1928	3931	1933	2670
1929	3127	1934	2008

The occurrence of deaths in the different quarters of the year is as follows :—

Quarter.		Deaths.
1st quarter	...	493
2nd quarter	...	501
3rd quarter	...	512
4th quarter	...	502
		2008

The Annual Form No. XIII furnishes the number of deaths and death-rates in the various divisions. The highest death-rate was 4·4 recorded by Choolai, Puraswalkam and Mirsahibpet divisions and the lowest 0·8 by Muthialpet division.

Small-pox :—The epidemic which was prevalent throughout the Presidency in 1933 gradually declined in 1934. There were 638 attacks and 131 deaths against 3503 attacks and 837 deaths respectively during 1933, the fatality rates being 20·5% and 23·9% respectively during 1934 and 1933.

The annual death-rate in 1934 was 0·19 per mille of estimated population as compared with 1·2 per mille in 1933. Calculated on the census population the rate was 0·2 per mille in 1934 and 1·3 per mille in 1933, the quinquennial average being 0·5.

The incidence from small-pox for the past 10 years is furnished below :—

Year.	Attacks.	Deaths.	Year.	Attacks.	Deaths.
1925	1807	763	1930	877	188
1926	300	60	1931	109	24
1927	385	32	1932	842	176
1928	1066	251	1933	3503	837
1929	2019	506	1934	638	131

The incidence of the disease in the several quarters of the year is as follows:—

Quarter.	Attacks.	Deaths.
1st quarter.	324	66
2nd quarter.	193	37
3rd quarter.	75	16
4th quarter.	46	12
	638	131

The disease occurred in every division but there were no deaths in Royapuram, Harbour, Muthialpet, Katchaleswaranpet, Kothwal Bazaar, Trevelyan Basin, and Chintadripet divisions. Of the 23 divisions which recorded deaths, the highest rate was returned by Washermenpet division (0·6) and by the Korukupet division (0·5). The lowest rate of 0·05 was returned by the Triplicane and Amir Mahal divisions. The Annual Form No. VII gives the divisional statement of deaths and death-rates from small-pox.

Information regarding the vaccinal condition of patients and its relation to the mortality will be found in the reports of the Medical Officers of Infectious Diseases Hospitals at Tondiarpet and Krishnampet.

Out of 638 cases that occurred during the year, 586 or 91·8% of the total cases were removed to the Isolation Hospitals for isolation and treatment.

Measles.—7 deaths from measles were registered during the year. The death-rate was 0·01 per mille of estimated population as compared with 0·06 in 1933. Chepauk, Triplicane, Mirsahibpet, Royapettah and Mylapore were the only 5 divisions which registered deaths from measles during the year.

Malaria:—193 deaths from malaria were registered as against 140 in 1933. The death-rate was 0·28 per mille of estimated population as against 0·2 per mille in 1933. Calculated on the census population the rate was 0·3 in 1934 and 0·2 in 1933, the average for the quinquennium 1929–33 being 0·5.

The mortality from malaria from 1925 to 1934 is furnished below :—

Year.	Deaths.	Year.	Deaths.
1925	1298	1930	283
1926	1342	1931	277
1927	1367	1932	165
1928	1599	1933	140
1929	681	1934	193

The seasonal mortality from malaria during 1934 is distributed as follows :—

Quarter.		Deaths.
1st quarter	...	46
2nd quarter	...	42
3rd quarter	...	41
4th quarter	...	64
		193

The Annual Form X gives the statement of deaths and death-rates from malaria in the several divisions. The highest death-rate was registered by the Harbour Division (1·3) followed by Kothawal Bazaar Division (1·2) and the lowest by Tirvateswarnpet (0.03) Choolai, Purasawalkam and Kilpauk Divisions registered no deaths from malaria.

The mortality is very much controlled by free treatment afforded to the public by the various Corporation Dispensaries, Government Hospitals and several aided institutions. The public themselves resort to early treatment. Fuller details about the incidence and control of malaria will be found in the report on "Anti-malarial measures."

Enteric Fever:—Enteric Fever accounted for 145 deaths as against 90 deaths in the previous year 1933. The death-rate per mille of estimated population was 0·2 as compared with 0·1 per mille in 1933. The quinquennial average was 0·2 per mille the same as for the year 1934.

The mortality from enteric fever for the past 10 years is shown below.

Year.	Deaths.	Year.	Deaths.
1925	99	1930	126
1926	152	1931	166
1927	164	1932	101
1928	177	1933	90
1929	130	1934	145

Deaths from this disease were registered in all the months of the year and were distributed over the different quarters as follows :—

Quarter.	Deaths.
1st Quarter	26
2nd Quarter	31
3rd Quarter	36
4th Quarter	52
	145

The Annual Form XI gives in detail the divisional deaths and death rates. The highest death-rate was recorded by Egmore Division (0. 6) followed by Esplanade and Chintadripet Divisions (0·5). The lowest rate was returned by the Tondiarpet Division (0·04). Muthialpet, Sowcarpet and Kilpauk Divisions registered no deaths from this disease. Failure of timely notification of typhoid fever is a great handicap in the preventive work of the department.

Apart from the usual preventive measures carried out in the infected houses, 3876 contacts were inoculated against typhoid as against 523 in 1933.

Other Fevers:—Under this head are included cases of deaths other than from Malaria, Tuberculosis, Enteric Fever, and Respiratory diseases with fever as the predominant symptom. 2097 deaths were registered under this cause in 1934 as against 2095 in 1933, the death-rates being 3·0 and 3·1 per mille of estimated population respectively. Calculated on the census population the death-rate was 3·2 in both years, the quinquennial average being 2·8. (Annual Form XII.)

General Respiratory Diseases:—5783 deaths were registered under this group as compared with 5967 in 1933. 8·8 and 8·4 per mille of estimated population were the death-rates in 1933 and 1934 respectively. Calculated on the census population the death-rate was 8·9 in 1934, the rates for 1933 and the quinquennial average being 9·2 and 8·6 respectively. (Annual Form XV.)

The following statement furnishes the mortality statistics for the past 10 years.

Year.	Deaths	Year	Deaths
1925	4712	1930	5256
1926	4947	1931	5743
1927	5035	1932	5509
1928	6879	1933	5967
1929	5324	1934	5783

Tuberculosis:—1122 deaths from tuberculosis were registered in 1934 as against 1011 in 1933. The death-rate was 1·6 per mille of estimated population as compared with 1·5 per mille in the preceding year 1933. The number of deaths due to tuberculosis of lungs was 971 or 1·4 per mille as compared with 855 or 1·3 per mille in 1933. Calculated on the census population the death-rate from tuberculosis was 1·7 in 1934, the rate for 1933 being 1·6 which was the same as the quinquennial average.

The mortality from tuberculosis for the past 10 years is as follows:—

Year	Deaths	Year	Deaths
1925	1604	1930	1075
1926	1538	1931	1020
1927	1781	1932	917
1928	1812	1933	1011
1929	1371	1934	1122

The number of deaths registered during the different quarters of 1934 is as follows:—

Quarter.		Deaths.
1st quarter	...	267
2nd quarter	...	270
3rd quarter	...	275
4th quarter	...	310
		1122

The number of deaths and death-rates in the various divisions is given in the Annual Form XIV.

Deaths from child birth:—313 women died from causes connected with child bearing during the year as against 331 in 1933. The maternal mortality rate was 11·1 for 1000 live births as compared with 11·6 in the preceding year 1933.

The maternal mortality rates from 1925 to 1934 are as follows :—

Year	Rate per 1000 births	Year	Rate per 1000 births
1925	14·9	1930	12·7
1926	16·0	1931	11·6
1927	11·8	1932	10·0
1928	15·4	1933	11·6
1929	13·1	1934	11·1

The deaths of 313 women from child-birth are classified below according to age and causes.

Causes of death.	Deaths in age periods.					Total	Percentage to total deaths.
	10-15	15-20	20-30	30-40	40 & above		
Puerperal Sepsis ...	3	31	57	47	11	149	47·6
Abortion ...	...	2	10	7	...	19	6·1
Other accidents & Pregnancy. ...	...	24	67	46	8	145	46·3
Total ...	3	57	134	100	19	313	100·0

Puerperal sepsis accounted for 47·6% of the total deaths from child birth. Calculated with reference to births registered during the year the death-rate for puerperal sepsis was 5·3 per 1,000 births compared with 6·2 in 1933.

Deaths from "Other Causes":—11,424 deaths were registered under this group as against 10,950 deaths in 1933. Under this head are included deaths due to diseases of the circulatory, digestive, nervous, genito-urinary and other systems except respiratory system. The death-rate was 16·5 per mille of estimated population as compared with 16·1 per mille in 1933. Calculated on the census population the death-rate was 17·7, the rate for 1933 and the quinquennial average being 16·9 and 15·9 respectively. (Annual Form XVIII.)

Certified deaths.—3205 deaths were certified by the various hospitals in the city and 1024 by the private medical practitioners. The certified deaths represented 17·9% of the total deaths in 1934 compared with 22% in 1933.

Burial and Burning Grounds.—The divisional sanitary inspectors supervised the burial and burning grounds in the City. Out of 23,659 deaths, 4287 corpses were burnt and 19,372 corpses buried.

Vaccination.

Staff:—17 Sub-Assistant Surgeons and 37 vaccinators including 2 women vaccinators attended to the vaccination work as in the previous year 1933.

Operations:—48,038 vaccinations were performed during the year 1934. Of these, 28,233 were primary vaccinations and 19,805 re-vaccinations. The vaccinations performed in 1932, 1933 and 1934 are compared in the following statement:—

	1932	1933	1934
Primary Vaccination.	27,076	30,851	28,233
Re-vaccination	21,757	1,68,601	19,805
	48,833	1,99,452	48,038

1933 was a record year due to the large campaign of mass vaccination carried on during the epidemic of small-pox. The fall in 1934 was inevitable.

28,053 primary vaccinations and 2.817 re-vaccinations during the year were successful as compared with 30,692 and 29,591 respectively in 1933. The precentages of success in primary and re-vaccinations were 99·8 and 17·9 respectively during 1934 as against 99·7 and 22·4 respectively in 1933.

The number of persons successfully vaccinated per mille of the population during the year under report was 47·7 as against 93·1 in 1933.

Infantile vaccinations:—21,034 infants under one year of age were vaccinated during 1934 as against 22,105 in 1933. Of these, 20,931 infants were successfully vaccinated against 22,012 in 1933. Out of 21,034 infants vaccinated during the year, 15,505 were born in the city and 5,529 born in the moffusil.

Verification of births:—During the year 1934, 28,706 births were verified for purposes of vaccination compared with 28,479 births verified in 1933. 4,392 children died before attaining the age of one year. 5,385 children were removed from the City. The number available for vaccination during the year was 18,929. Of these, 13,646 or 72·1 per cent were vaccinated against 74·6 per cent in the previous year.

Post-ponement of vaccination in children:—The vaccination of 1,116 children was postponed for medical reasons.

Inspection of vaccinated persons:—The results of the vaccinated persons were verified by the Health Officer, Asst. Health Officers and the Medical Vaccinators. The results of 28,118 or 99·6% of the total primary vaccinations and 15,749 or 79·5% of the total re-vaccinations were verified by them during the year under report.

Prosecutions:—52 parents were prosecuted for failure to vaccinate their children. 36 prosecutions were withdrawn as the parents had them vaccinated subsequently. 16 parents were convicted and a sum of Rs. 8-6-0 was realised as fines.

Cost of vaccination:—The cost of each successful vaccination in 1934 was Re. 0-13-0 as compared with Re. 0-11-3 in 1933.

Sanitation.

The Health administration was carried on during the year under the immediate supervision of two Assistant Health Officers Dr. P. Sadasivan and Dr.S.E.D. Masilamani.

Water supply:—The quality of pipe water supplied to the City was being tested as usual at the Water Analysis Loboratory at Kilpauk. Details of the work done in this direction will be found in the

report of the Water Analyst which forms part of the annual report. 8 bathing fountains were constructed by the Corporation during the year.

Sewerage:—37,198 feet of sewers were laid during the year, the total length covered up to 31–12–1934 being 11,68,713 feet. 1423 flush-out latrines were constructed in the City during the year.

Slums and Housing:—The recommendations of the Housing Committee appointed by the Council to evolve a practical housing policy for the middle and poorer classes were approved by the Council at its meeting held on 11-2-34 and further action is pending the orders of the Government. In Kasi Garden the sanded latrine was converted into a flush-out one. 2 flush-out latrines were provided in Srirangammal street and Veerakutty cherri. Model houses are being constucted in Karikaran and Commisseriat cherries. The huts in Chekkumodu Cheri were all removed and the people evicted were accommodated in Bander Rama Naick Garden.

The Sanitary Inspectors systematically conducted house to house inspections with a view to remedy sanitary defects. 13,353 houses were so inspected during the year of which 3,671 were found defective; 554 for want of proper drainage, 840 for want of proper latrine accommodation, 76 for defective water supply, 950 for bad ventilation and 1,251 for miscellaneous defects. As a result of the action taken by the Health Department, improvements were effected in 3,305 houses. During the year 3,437 plans for construction and reconstruction of houses were received in this department for scrutiny.

In connection with the detection of epidemic diseases 23,564 houses were inspected. 3,004 premises were disinfected during the year and 9½ gallons of hycol, 32 gallons of phenyle, 28½ gallons of newcol and 267 gallons of lysotol were used for the purpose.

Factories:—All the factories in the City were inspected during the year by the Health Officer and by the two Assistant Health Officers who continued to be Additional Inspectors of Factories and reports of inspection were forwarded to the Chief Inspector of Factories. One additional seat was constructed in the Hindu office latrine.

Offensive and dangerous trades:—During the year under report 6,053 applications were received for licenses for these trades. Licenses were granted in 5,324 cases and refused in 279 cases. 450 cases were pending at the end of the year. Prosecutions were instituted in 309 cases before and after licenses were issued so as to enforce the sanitary regulations for the control of these trades.

The Corporation maintained 3 model cattle yards, one in Basin Road, another in Puraswalkam and a third in Chintadripet. The total number of animals housed in these yards was 359. There were 2,233 licensed private cattle yards in the City during the year.

The Elephant Gate cart stand was under the control of the Health Department. It was leased out on contract for Rs. 6,300 for the official year 1934–35.

Meat supply :—The Corporation maintains the Slaughter House at Perambur where sheep, pigs and cattle are slaughtered for consumption in the City. Animals brought for slaughter and the carcasses of slaughtered animals are inspected by the Superintendent in charge, with a view to ensure the quality of meat supplied in the City. A statement of the animals and carcasses inspected, those that were rejected and carcasses or parts condemned as unfit for human consumption and destroyed is furnished hereunder.

	No. of animals brought for slaughter and inspected.	No. of animals rejected.	No. of carcasses inspected.	No. of carcasses condemned.	No. of diseased parts condemned.
Sheep ...	6,00,026	8,306	5,91,720	21	10,890
Cattle ...	17,515	763	16,752	6	6,818
Pigs ...	1,679	229	1,450	8	718

The right of collecting rents and fees from the Cattle and Sheep Slaughter Houses were let on contract for Rs. 18,750 and Rs. 66,050 respectively for 1934–35.

As usual slaughter of animals for religious purposes in places other than the slaughter houses was permitted free during Hakika and Bakrid festivals and on payment of fees on other occasions. The amount collected during the year was 94–6–0.

Food Control:–During the year 1934, the Fruit Market at Esplanade was extended by 45 stalls inside and 26 thatty stalls on the outside as an annexure. The other Municipal markets viz., Moore Market, Smithfield Market, Purasawalkam Market and the Mambalam Market were also duly inspected by the Corporation staff. All articles of food exposed for sale were regularly and systematically examined and those found unwholesome were destroyed then and there. A statement of the rotten food stuffs destroyed and the number of prosecutions instituted under Section 310 will be found elsewhere.

Weights and Measures:—Throughout the year the two Inspectors of Weights and Measures inspected markets, bazaars and shops and checked the weights and measures used by the merchants, hawkers, milk sellers &c. In 413 cases, weights, measures and scales found defective were seized and confiscated. Prosecutions were launched in 37 cases of which 29 resulted in conviction. In one case the Magistrate acquitted the milk vendor and declared that possession was not an offence under the by-laws. The need for amending the by-law for penalising the very possession of false weights and measures and scales is felt necessary for completely stopping the use of such defective articles.

Medical Relief:—The Corporation continued to maintain 2 Infectious Diseases Hospitals, 19 allopathic dispensaries and 4 dispensaries of the indigenous system of medicine. Statements of cases treated in these institutions are furnished elsewhere. There are two Leprosy clinics, one at Vyasarpady and the other at Ice House Road, Triplicane. Both the clinics did useful work during the year. The one at Ice House Road was under the supervision of the Honorary Leprosy Officer. The work turned out by the two clinics is shown in a separate statement.

Poor House:—The year opened with 174 inmates on the rolls. 146 persons were admitted during the year, 110 were discharged for various reasons, 45 died in the Poor House and 4 escaped. The number remaining in the house at the end of the year was 161. All the necessary comforts were provided for the inmates.

The usual ten treats earmarked by M. R. Ry. C. V. Viswanatha Sastriar Avergal and the two treats earmarked by the Government Officials' Party out of the interest accruing from their endowments of Rs. 5000 and Rs. 1000 respectively were given during the year on the specified festival days. A few of the inmates who were able to do light work maintained a small vegetable garden.

Anti-rabic measures:—The electrocuting chamber at Basin Road continued to work throughout the year. 8,440 dogs were caught and taken to the Lethal Chamber of which 160 were claimed back by the owners. 8,217 were electrocuted. The remaining dogs were awaiting disposal at the end of the year.

Zoological gardens:—The Corporation Zoological gardens are in charge of a zoology graduate. There is a small lake situated in the gardens where pleasure boats are plied. Visitors to the zoo are charged at one anna per head. The right of collecting the entrance fee from 1-4-34 to 31–3–1935 was let out on contract for Rs. 21,300. There were several additions to the live stock.

Publicity and Health Education:—As usual the department carried on health propaganda through the Health officials who delivered magic lantern lectures and conducted cinema shows etc. in various parts of the City. 1,581 open air lectures, 1,446 talks, 983 demonstrations with the aid of magic lanterns and 18 cinema shows were conducted during the year. A Divisional Health Exhibition was held in the 21st division in the month of February which was largely attended.

Conservancy.

Mr. W. L. Edwards, the Drainage Superintendent continued to be in charge of conservancy work during the year under report. He was assisted by the two Supervisors. There were 23 Sanitary Inspectors, 17 Process Servers and 161 peons in charge of the conservancy of the City. The sewer and main drain cleaning staff continued to be under the Drainage Superintendent as before. The Veterinary Officer was in charge of the veterinary work at the cattle depots.

Cleaning staff:—There were 2,325 men, 186 women and 264 boys employed for the cleaning of streets, drains and latrines in the City. Details of carts employed for the removal of rubbish and filth during 1934 are furnished below:

Trollies, double and single draught carts for the removal of rubbish	...	456
Night-soil carts	...	84
Sewage and silt-carts	...	92

Animals:—The number of bullocks on hand on 1–1–34 was 738 against 713 on 1–1–1933. 244 animals were bought during the year making up a total of 982. 83 bullocks died during the year as against 113 in the previous year leaving a balance of 899 bullocks at the end of the year.

The health of the conservancy animals during the year was very satisfactory. Of the 83 bullocks, 51 died of old age and general debility, 1 of Anthrax, 6 of Tuberculosis, 1 of Foot & Mouth disease, 5 of Piroplasmosis and 19 of other causes.

Foot & Mouth Disease:—There was an outbreak of Foot & Mouth disease in all the cattle depots. 231 animals were affected with the disease. By segregation and timely treatment the virulence of the disease was aborted and controlled in a short time. All the affected bullocks speedily recovered except one old bullock which succumbed to the disease.

Anthrax:—There was only one death from Anthrax at the Krishnampet cattle depot. Immediate preventive steps were adopted and all the depot bullocks were promptly protected with anti-anthrax serum.

875 animals were treated for various diseases and 226 cases which required surgical skill and constant attention were treated at the Veterinary Hospital.

Conservancy carts etc:—During the year under report 30 rubbish and 19 box-carts, 1,200 dust bins and 540 night-soil buckets were manufactured.

Motor lorries: 37 motor lorries were employed for the removal of rubbish, filth and sewage. 4 Cheverolet and 2 Bedford lorries were purchased during the year.

Tipping Platforms: The two model tipping platforms at Basin Bridge and Langs Garden Pumping Station continued to serve very satisfactorily.

Disposal of rubbish: About 5,32,992 cart loads of rubbish were removed from the City during the year as against 5,45,087 cart loads in the previous year. 51,478 cart loads were disposed of at the Incinerator by separation and incineration. 2,37,848 cart loads of rubbish were used in reclamation works at the tank in new Mohammedan burial ground in Suryanarayana Chetty street, portion of pit in sewage farm, Harinarayanapuram, Kursedi cherri, Conran Smith Nagar, London Mission Bentick Girls' School, Otary burial ground, lowland on the banks of Buckingham Canal, in Oddarpalayam, Venkatarangam Pillai street, pond behind the office of the I. G. of Police and Mylapore Convent's ground at Sir Thyagaraya Road. The balance was deposited in the dumping grounds at Korukkupet, Ottery, Rifle Range and Mylapore.

The Incinerator at Krishnampet continued to function throughout the year. The Incinerator at Basin Road was closed for repairs from 1-2-34 to 31-7-34. 30,150 cart loads of incinerator ash and screened earth were removed by private parties free of charge for raising lowlands etc.

Disposal of filth: The three pail depots at Ice House Road, DeMellows Road and Langs Garden worked throughout the year. About 1,07,883 cart loads of filth were removed from the City, of which 70,426 cartloads were flushed into sewers at the pail depots. The balance was trenched at the Ottery and Korukkupet night-soil depots. The amount realised by the sale of manure from the trenching grounds during the year 1934-35 was Rs. 3,275.

Public latrines: 192 flush-out, 34 masonry and 21 sanded latrines were maintained during the year. 20 new flush-out latrines were constructed. 1 sanded and 2 masonry latrines were converted into flush-out ones and 4 flush-out latrines were extended by the provision of additional seats. Sand was renewed in all the sanded latrines. 1,178 gallons of lysotol and other disinfectants, 4,934 parahs of chunam and 136 lbs of bleaching powder were used for the disinfection of drains, street corners, dustbins and night-soil buckets.

Festivals: Special arrangements were made for efficient cleaning and disinfection during all the important festivals in the City. The conservancy of the S. I. A. A. grounds was attended to departmentally during the Park Fair (1934–35) on payment of fees.

Private scavenging: A sum of Rs. 20,618 was derived as charges for conservancy services rendered to private institutions under Section 197 of the Act.

Nuisance: 15 special constables were paid for during the year for the purpose of preventing the committal of nuisance in the City.

Labour: Bonus was granted as usual to the coolies who retired on account of old age or infirmity as per regulations issued in G. O. No. 4942 L & M dated 22–12–31. 300 conservancy coolies are occupying houses in model lines and 211 live in huts on Corporation land. No additional lines could be constructed for want of funds though the demand for them is increasing year after year.

General: The total expenditure on conservancy for the financial year 1934–35 was Rs. 9,86,706–15–1 (Rs. 53,016–5–6 capital and Rs. 9,33,690–9–7 ordinary) against Rs. 9,30,655–9–6 for 1933–34 (Rs. 55,081–1–5 capital and Rs. 8,75,574–8–1 ordinary). The amount on wages of conservancy coolies was Rs. 5,72,828–3–11.

Anti-malarial measures.

During the year 1934 anti-mosquito measures were carried out as in the previous year by 2 supervisors, 6 maistries and 68 coolies who worked under the direct supervision of a Medical Officer. Proposals for the additional staff to carry out adequate anti-malarial and anti-mosquito measures at an additional cost of Rs. 20,000 could not be taken up owing to financial stringency. But 15 coolies were employed temporarily for a period extending from 10–2–34 to 31–3–34 to survey and destroy breeding grounds in some of the garden and un-sewered areas in the City where the nuisance caused by mosquitoes is usually very severe. During the latter part of the year, 7 additional coolies were employed temporarily for a period of 8 months from August 1934 for the inspection of wells in the North Range. Detailed reports about the work of the additional staff are given elsewhere in this report.

Control of tanks & ponds:—493 tanks and ponds existed at the beginning of the year under report. The Corporation staff periodically cleaned 192 ponds and collected a sum of Rs. 1945-15-0 from the owners. The owners of 168 ponds made their own arrangements to clean them after notification. 4 private ponds were cleaned free of charge on account of their receiving storm water from the surrounding area. 10 Corporation tanks were also attended to by the staff.

13 ponds were reclaimed during the year. Of these, 11 ponds belonged to private owners and 2 to the Corporation. The Corporation reclaimed 2 private ponds at the cost of the owners and the rest were reclaimed by the owners themselves. In the other cases no action was necessary.

Control of wells:—Larvicidal fish were introduced into wells by a small staff of 2 fishermen and 4 coolies as in the previous year.

A statement of work turned out by the fish gang during the first inspection of the wells in the South Range is furnished below:—

No. of wells examined	...	6059
Percentage of wells with fish dead to total wells examined	...	70·7
No. of wells breeding culex and anopheles mosquitoes either alone or together	...	443
Percentage of wells with mosquito larvae to total wells examined	...	7·3
No. of wells breeding anopheline larvae	...	182
Percentage of wells with anopheline larvae to total wells examined	...	3·0
No. of wells in which fish was introduced	...	5886
No. of bad wells petrolised during inspection	...	173

The wells in the Mylapore division had the benefit of a second inspection during the year.

As previously stated the fish gang in the North Range was augmented by 7 coolies temporarily from August 1934 for a period of 8 months to inspect the wells. This special staff inspected the wells in all the divisions in the North Range twice during the year except the Harbour and Muthialpet divisions which were gone round once. A statement of the work done is given below :—

		1st inspection.	2nd inspection.
No. of wells examined	...	6587	5934
Percentage of wells with fish dead to total wells examined	...	74·3	49·6
No. of wells breeding culex and anopheline mosquitoes either alone or together	...	1354	849

	1st inspection.	2nd inspection.
Percentage of wells breeding mosquito larvae to total wells examined ...	20·6	14·3
No. of wells breeding anopheline larvae ...	690	509
Percentage of wells with anopheline larvae to total wells examined ...	10·5	8·6
No. of wells in which fish was introduced ...	6270	5775
No. of bad wells petrolised during inspection ...	317	159

The percentage of wells in which fish died was almost the same in the North & South Ranges at the 1st inspections. This indicates the need for frequent re-stocking of fish-a point which was emphasised in previous reports. The percentage of wells breeding both kinds of mosquitoes was 7·3 in South Range and 20·6 in North Range in the 1st inspection. The percentage of wells breeding anopheline mosquitoes was 3·0 in the case of South Range and 10·5 in North Range in the first inspection. In the latter case the bad conditions of the wells were responsible for higher percentage, about which much had been written in previous reports. The prevalence of the malaria carrier *A. Stephensi* and the results of blood examination mentioned elsewhere account for the endemicity of malaria in the divisions in the northern portion of the City.

The results of the second inspection of wells carried out in the North range show an appreciable fall in the percentage of wells breeding culex and anopheline mosquitoes. 49% of wells showed absence of fish against 74% in the first round. The results of the individual divisions were far more encouraging. Marked improvement is bound to take place if the wells are stocked with fish at least 4 times a year. As difficulties are met with in enforcing such permanent measures as filling or covering them with cudappah stones, this will be the solution to the problem of control of wells.

As a result of the action taken against the owners, 19 bad wells were filled up, 114 covered with cudappah slabs, 527 fitted with trap doors and 16 were cleaned of silt and floating matter. Larvicidal fish were introduced into wells provided with trap doors as well as into those cleaned.

Haplochilus Melanostigma, Panchax, Barbus and Chela were the larvicidal fish that were put into the wells.

The fish gangs inspected the dwelling houses and compounds and destroyed breeding grounds of mosquitoes in collections of water, in broken vessels, tins, cisterns, drains etc. Such breeding places were destroyed after they had been shown to the occupants. Pamphlets relating to the prevention of mosquito nuisance were distributed to the public during the inspection of wells.

Control of covered drains, cesspools etc:—All covered drains, open drains, ditch drains, cesspools, and gulley traps were petrolised once a week by the petrolising gangs. Whenever necessary, these were cleaned before oiling. Stagnation in low lands, ditches and excavations in public places were also attended to.

A mixture of liquid fuel and kerosine oil was used for petrolising. Saw dust and used cotton-waste soaked in the mixture was used wherever necessary to give a continuous film of oil. Oil balls were tied in some of the big drains.

Control of the River Cooum, and Buckingham Canal.–There is no separate staff to attend to these places regularly. Whenever the situation was bad the existing staff attended to these places.

Control of lowlands:—As a result of the action taken by this department, 22 pits and excavations and 20 low-lying lands were reclaimed during the year in addition to 13 ponds mentioned elsewhere in the report

as having been reclaimed. Some of the lowlands reclaimed were in Harinarayanapuram, Korukupet, Alwar Chery in 7th Dn, lowlands near Odderpalayam in 16th Dn, Kurusedipuram, Otary Burial Ground, lowlands near Kodambakam High Road, Chetpet, Odderpalayam in 28th Dn, S. W. D Store yard in St. George's Cathedral Road etc.

Reclamation work was carried on in Perambur tank, Old Choolai burial ground, Ganesapuram, lowland in the market in Nungambakam High Road, Conran Smith Nagar, Hope Lodge, Slaughter House, Rutherford Sundrapuram and People's Park.

Control of mosquito-breeding in private premises:—All complaints about mosquito nuisance received from different parts of the City were attended to by the medical officer and his staff. Investigations were conducted on every complaint and relief was afforded after destroying the breeding grounds. The citizens were shown such places and were given instructions.

Regular and systematic house visits were not possible without a separate staff. However a regular inspection of all the premises and compounds in some of the garden and unsewered areas in the City where the nuisance is usually very great was undertaken with a special staff of 15 coolies appointed temporarily for a short period from 10-2-34 to 31-3-34. Portions of Nungambakam, Chetpet, Kilpauk, Egmore, Mambalam, Perambur and Vyasarpady had the benefit of such visits. A regular weekly inspection of these areas specially in February and March when the nuisance from mosquitoes is at the worst, gave immense relief to the residents who were greatly disappointed when this work had to be stopped subsequently for want of funds.

The public were notified through the press about the prevention of breeding grounds in residences. Pamphlets were also distributed to educate the public and enlist their co-operation.

Control of dyeing yards:—Special attention was paid to the control of mosquito breeding in the earthen vats buried in the ground and used for dyeing. All the dyeing yards were inspected during the year and as a result of the action taken against the owners 236 vats were filled up and 155 others removed. The vats in use were provided with lids to prevent the entry of mosquitoes.

Mosquito survey:—Anopheline larvae and pupae from ponds, tanks, wells, cisterns etc., were collected during inspections and bred out in the laboratory for adult identification.

Survey of tanks & ponds:—During the year under report *A. Culicifacies*—one of the most dangerous malaria carriers—was found to breed in some of the tanks in Tondiarpet, Washermanpet, Korukupet, Perambur, Vepery, Egmore, Kilpauk, Nungambakam, Royapettah and Mylapore. *A. Minimus Var Varuna,* another malaria carrier, bred in the tanks in Perambore, Kilpauk, Nungambakam and Royapettah. It may be stated that the distribution of this species is more or less confined to the southern and western portions of the city. *A. Stephensi*, another malaria carrier, was found to breed in a few ponds though it chiefly breeds in wells. There were also several other anopheline species but of no malarial importance.

Survey of wells:—The survey of wells revealed as in the previous year that the most dangerous malaria carrier *A. Stephensi* was widely prevalent in the City breeding chiefly in the wells.

During the first inspection anopheline larvae from 818 wells were collected and bred out. *A. Stephensi* was identified in as many as 763 wells *i. e.*, 93. 3%. During the second inspection which was mainly confined to the North Range on account of the additional staff appointed for this purpose, anopheline larvae were collected from 375 wells and bred out. *A. Stephensi* was breeding in 362 wells i.e. 96. 5%. In all the municipal divisions

this carrier was found to be prevalent. Tondiarpet, Washermenpet, Korukupet, Kothwal Bazaar Dn. Mofuskhan, Seven Wells, Sowcarpet, Peddunaikenpet, Trevelyan Basin, Park Town, Choolai, Puraswalkam and Chintadripet were the divisions in which it was widely distributed. Excepting the last three municipal divisions, all the other divisions mentioned above form the major divisions comprising the North Range which is endemic for malaria.

Apart from this species, *A. Culicifacies* and *A. Minimus Var Varuna* were found to breed in some garden wells in Kilpauk, Nungambakam and Royapettah. There were also other non-malarial species breeding in garden wells.

Malaria cases treated in different institutions:—The following statement gives the number of cases treated in the principal Government Hospitals and other institutions in the City during the year 1934:—

——	No. of malaria cases treated.	Cases in which malarial parasites were found.	No. of deaths from malaria.
Government General Hospital (excluding outpatient department).	802	426	10
Government Royapuram Hospital (excluding outpatient department.)	950	305	24
Government Royapettah Hospital (excluding outpatient department.)	75	75	3
Government Victoria Caste & Gosha Hospital.	31	31	2
Government Indian Medical School Hospital.	63	63	...
Government Hospital for Women & Children.	614	16	...
Government Tuberculosis Hospital.	10	4	...
Government Mental Hospital.	8	8	...
Government Ophthalmic Hospital.	1	1	...
British Military Hospital, Fort St. George.	3	3	...
Raja Sir Ramaswamy Mudaliar's Lying-in-Hospital.	57	41	5
Christina Rainy Hospital.	34	14	...
Lady Ampthill Nurse's Institute.	5	5	...
Total	2653	992	44

Malaria cases treated in Corporation Dispensaries:—During the year under report, 32,517 malaria cases were treated in the several Corporation dispensaries.

Microscopical examination of blood smears:—The Medical Officer (Malaria) examined microscopically 838 blood smears received from the Medical Officers of several Corporation dispensaries. 433 smears showed the presence of malarial parasites i.e. 51.7%.

The following table gives the number of blood smears received from the different Corporation dispensaries:—

—	No. of blood smears received.	No. of smears in which malarial parasites were found.	Percentage of smears positive
Royapuram dispensary.	34	11	32·4
Mannady dispensary.	83	27	32·5
Harbour dispensary.	23	8	34·8
Mofuskhan dispensary.	120	70	58·3
Mint dispensary.	288	217	75·4
Trevelyan Basin dispensary.	45	25	55·6
Baliah Naidu dispensary.	33	13	39·4
Washermanpet dispensary.	41	11	26·8
Puliantope dispensary.	2	...	...
Perambur dispensary.	11	6	54·5
Mylapore dispensary.	33	7	21·2
Kosapet dispensary.	7	3	42·8
Thousand Lights dispensary.	11	...	...
Vyasarpady dispensary	18	1	5·6
Teynampet dispensary.	2	1	50·0
Choolai dispensary.	14	6	42·8
Chintadripet dispensary.	72	27	37·5
Nungambakam dispensary.	1	...	...
Total	838	433	51·7

The wide distribution of the malaria carrier A. *Stephensi* in the City specially in the divisions of the North Range should be held responsible for the prevalence of the disease.

Cases of enlarged spleen among Corporation school children :—During the school year 1934–35 the school medical inspection staff detected 229 cases of enlarged spleen among children attending the Corporation Schools. Of these, 202 cases, *i.e.*, 88% occurred among children attending the Corporation Schools situated in the North Range. Complete and elaborate spleen survey of children between 2 and 10 years of age is not possible for want of sufficient staff

Conclusion.—The importance of the mosquito and malaria problem in relation to public health cannot be over-emphasised. Much has been already written about this in previous reports. The recent ravages of malaria in Colombo, Travancore and other places should put us on our guard. Without adequate funds, the problem cannot be satisfactorily solved.

Report on the medical Inspection of Corporation Schools for the year 1934–35.

Staff :—Four Medical Inspectors and two Medical Inspectresses continued to work during the year.

Findings of Medical Inspection:—The increase in the strength of the schools has been maintained this year also. The total number on the rolls at the time of the inspection was 20,991 as against 20,587 in the previous year in the boys' schools, while in the girls' schools it was 13,202 as against 12,706 in the previous year. Strenuous efforts were made to examine as many children as possible by repeated revisits to the schools. 19,086 boys and 10,651 girls were examined this year. The percentage of boys examined to the total number on rolls was 90·92 and in the case of girls 80·66. The average attendance was 16,597 in boys' schools and 10,122 in girls' schools. The need for additional staff was keenly felt since the strength has been on the increase year by year.

10,634 boys (55·72%) and 4,870 girls (45·72%) were defective and required treatment. The percentages for the previous year were 61·10 and 48·22 respectively. Generally speaking the health of the school children was fairly good during the year. The incidence of sickness among them was less as is evidenced by the reduction in the percentage of defectives under malnutrition, oral and dental conditions, nose and throat and infectious diseases. The number of children having enlarged spleen has also decreased from 274 to 229.

Cleanliness, condition of the skin, of scalp, body and nails:—2,510 boys (13·15%) and 514 girls (4·83%) were found to be dirty in their person and clothing, the precentages for the previous year being 13·64 and 5·17 respectively. The school authorities were advised to devote their attention to this and to instruct the dirty children to bathe in the school bath rooms and get them into the habit of washing their clothes daily.

Malnutrition:—There has been a slight improvement in the nutritional condition of the children. 3,505 boys (18·36%) and 281 girls (2·64%) were classed as undernourished. The percentage of defectives during the previous year was 23·42 among boys and 1·94 among girls. Cod liver oil and other suitable medicines were prescribed to be dispensed at the nearest Corporation dispensary.

Teeth and Mouth:—2,035 boys (10·66%) and 925 girls (8·68%) had oral and dental diseases. The percentages for the previous year were 16·13 among boys and 11·19 among girls. As had been detailed in previous reports, want of properly balanced food was the main factor which interfered with their general health and caused stomatitis. As a result of the advice given to the parents in regard to the diet, many of the children having stomatitis of a chronic nature were found much improved. While 1,980 had the malady in the previous year, only 1,377 suffered from it during the current year. 301 children having tartar teeth were advised scaling at the dental sections of hospitals. Extraction of carious teeth was advised wherever necessary.

Nose and Throat:—3,907 boys (20·47%) and 2,453 girls (23·03%) were defective under this head as against 25·61% and 20·80% respectively in the previous year. 5,564 children had enlarged tonsils in varying degrees. 680 had palpable cervical glands, 231 had tonsils and adenoids. 8 had nasal polypi. 763 of the above children were advised operative treatment. Others were treated at the local dispensaries.

Eye disease:—645 boys (3·38%) and 403 girls (3·78%) were suffering from ailments of the eyes. The percentages for the previous year were 2·47 among boys and 4·21 among girls. As in previous years the commonest condition found was conjunctivitis, 381 having it. 344 children had xerotic condition of the eyes. In addition to the local treatment, improvement of general health was aimed at by prescribing Cod liver oil and suitable diet. Details of the defects are shown in the eye table.

Vision:—253 boys (1·33%) and 39 girls (0·37%) were having defective vision. The percentages for the previous year were 1·22 among boys and 0·34 among girls. 113 children had defects of minor degrees and were prescribed Cod liver oil. Correction of vision was advised for 161 children. The rest had defects that could not be rectified.

Ear disease:—256 boys (1·34%) and 164 girls (1·54%) had otitis and otorrhoea. The percentages for the previous year were respectively 1·66 and 1·68. Chronic cases were referred to the specialist while others were treated at the dispensaries.

Hearing:—5 boys (0·03%) and 11 girls (0·10%) were short of hearing. Treatment by the specialist was suggested. The percentages for the previous year were respectively 0·04 and 0·08.

Speech:—52 boys (0·27%) and 8 girls (0·08%) had defects in speech.

During the previous year the percentages were 0·28 among boys and 0·11 among girls. 50 were stammerers and the rest had defects of articulation. One was dumb.

Circulatory system:—234 boys (1·23%) and 31 girls (0·29%) had defects under this head. The percentage defective in the previous year was 1·08 among boys and 0·31 among girls. Organic defects of heart were found in 62 children. 85 suffered from functional disorders of the heart and 117 were anaemic. They were treated at the local dispensaries.

Tuberculosis:—34 boys (0·18%) and 21 girls (0·20%) had tuberculosis in the incipient stages. The percentages for the previous year were 0·13 and 0·20 respectively. 33 children were advised treatment at the Government Tuberculosis hospital, while the rest of the children were treated at the Corporation dispensaries. General advice regarding the precautions to be taken and the food necessary was given to the parents of the children met by arrangement at the schools. The Medical Inspectors arranged talks and lectures on the subject in the schools.

Respiratory diseases:—397 boys (2·08%) and 103 girls (0·97%) had respiratory diseases, while during the previous year the percentage defective was 3·08 among boys and 1·05 among girls. 480 children had bronchitis and 22 had bronchial asthma. Treatment was given to them at the local dispensaries.

Abdominal organs:—378 boys (1·98%) and 73 girls (0·69%) were found defective under this head. The percentages for the previous year were 2·43 and 0·29 respectively. 229 children had enlarged spleen due to malaria. Out of these, 202 children were residents of the north range. The parents of the children in all these cases were interviewed and directed to send the children to the local dispensaries for treatment. Repeated examinations of these children were made during the re-visits to note the results of treatment. Cases of inguinal hernia, hydrocele etc. requiring operation were advised to go to the Government hospitals.

Bones and Joints:—371 boys (1·94%) and 39 girls (0·37%) were having affections of the bones and joints. 2·94% of boys and 0·28% of girls were defective under this head during the previous year. 387 children had deformed chest. The details of other defects noticed are found in the detailed statement.

Nervous and Psychic systems:—29 boys (0·15%) and 9 girls (0·08%) had defects under this head. The percentages of defectives under this head during the previous year were 0·15 among boys and 0·02 among girls. 6 children had infantile palsy while the rest had functional disorders. 13 children were mentally defective.

Infectious and Contagious Diseases:—2,522 boys (13·21%) and 789 girls (7·41%) had infectious diseases including skin complaints. The percentages for the previous year were 13·69 for boys and 6·62 for girls. Scabies formed the bulk of the defects amongst these children. 2,296 were suffering from this complaint. 476 were harbouring tinea and fungus infections. 476 children were detected as having leprosy compared with 324 in the previous year. One boy in Muslim school, Pudupet and another in Cooks Road School, Perambore, were suffering from the malady in infectious stages and were excluded from the schools. Children having other complaints of an infectious nature were isolated and treated at the local dispensaries, while those having leprosy were sent to the nearest skin clinic. One having lupus vulgaris of two years' duration was advised ultra-violet ray treatment at the Government General Hospital.

Other diseases and defects:—959 boys (5·02%) and 340 girls (3·19%) had defects and diseases not included in other items. The percentage defective was 6·26 among boys and 3·38 among girls during the previous year. 411 children had worms. 207 had phimosis and were advised circumcision.

Deformities:—65 boys (0·34%) and 31 girls (0·29%) had deformities, the details of which have been shown in the statement. The percentages during the previous year were 0·32 and 0·16 respectively. Spinal deformities and talipes were the main deformities noticed.

Number without marks of vaccination :—62 boys (0·32%) and 8 girls (0·08%) were not having clear marks of vaccination. They were subsequently vaccinated.

Medical treatment: —15,567 children were advised treatment at the following institutions.

		Boys.	Girls.
1.	Children sent to Corporation dispensaries ...	8921	3760
2.	Children referred to Government Hospitals ...	1302	574
3.	„ „ Ophthalmic Hospital ...	165	132
4.	„ „ Tuberculosis Institute ...	20	13
5.	„ „ Skin Dept. of hospitals ...	621	56
6.	„ „ Government Gosha Hospital ...		3
		11,029	4,538

Leprosy :—Out of the 324 children found having leprosy last year, 313 were found continuing their studies in the schools during the present year. In addition to this, 163 entrants were having the malady making up a total of 476 (1·60%) for the year under report. As had been detailed out in previous reports, a systematic "following up" was maintained and the parents of the children were explained about the nature of the disease. Talks and lectures were arranged on the subject and the parents were supplied with leaflets giving instructions and advice. The houses of these children were also visited to detect the sources of infection and bring other cases, if any, under treatment. 336 such house visits were made during the year. 45 persons either parents, relatives, or tenants living in the same houses were having the malady in various stages. Prescriptions were issued to them with instructions to go to the nearest skin clinics. As stated previously the two boys found having leprosy in advanced stages were excluded from the schools, but they have been regularly attending the clinics for treatment. The Medical Inspectors and the school staff maintained a special list and carefully followed the treatment given to them. The parents of such children were also frequently met to ensure regular treatment.

The distribution of the disease according to sex was as follows:—

	No. Defective.	Percentage to the total examined.	Percentage to the total of leprosy cases.
1. Boys.	437	2·29	91·81
2. Girls.	39	0·37	8·19
	476	1·60	100·00

In 5 children, the progress of the disease was arrested. 46 children were found improved after a prolonged course of treatment. 335 required continuance of treatment before signs of improvement could be noted. But it has also to be mentioned that many amongst the latter had not attended the treatment centres regularly without break. The parents of 58 children were indifferent in spite of repeated advice as most of them were residing in places situated at some distance from the skin clinics. 32 children left the schools and could not be traced.

Re-inspections and "following up" work :—During the year under report 317 re-visits were paid after the routine inspection and important defects "followed up." Special attention was bestowed on children suffering from leprosy who were subjected to repeated re-examinations with a view

to encourage them and make them attend the clinics regularly. The parents were also met during the re-visits to impress upon them the need for a prolonged course of treatment if any improvement was to result. 22,189 such re-examinations of children were made in addition to the routine examinations. The details of the results obtained are shown in the form of a statement a summary of which is given below.

Malnutrition :—614 children regained normal health after taking tonics. 1,178 children were very much improved as a result of treatment, while 1,524 continued treatment.

Teeth and mouth:—67 children had their teeth scaled and cleaned for tartar at the dental sections of Government hospitals. 77 children had their carious teeth extracted for bad decay. 456 children who had stomatitis obtained relief after treatment at the dispensaries.

Enlarged tonsils :—78 children had their tonsils removed by operation while in 596 relief was obtained by medical treatment. 1,412 improved after treatment. Two children who had nasal polypus were operated and cured.

Defective vision :—17 children had their defective vision corrected after medical advice and were wearing glasses. 43 improved their vision after taking cod liver oil.

Tuberculosis :—Of the children advised treatment for this malady one was found having the disease in an active stage as was evident from a skiagram of his lungs. On the advice of the Superintendent of the Institute, he was admitted as an in-patient and treated. He was discharged after cure. In another, the disease was arrested after out-patient treatment. 18 children had improvement while others were continuing treatment.

Abdominal organs :—Out of 229 children who had enlarged spleen 46 were cured and 62 were improved. 109 were continuing treatment. 12 were not traceable at the re-inspections. 4 children underwent radical operation for inguinal hernia.

Infectious and contagious diseases :—1,152 children having infectious skin diseases as scabies, eczema, fungus etc., were cured after treatment. 589 having the same complaints, were much improved after treatment. One having lupus of two years' duration underwent ultra-violet ray treatment and was found much improved. The results of 'following up' work done in regard to leprosy have already been explained.

Other diseases and defects:—43 children underwent circumcision operation for phimosis after medical advice. 70 children were found attending the school with fever. They were sent home with necessary prescriptions. They were found cured at the re-inspections.

Co-operation of parents :—7,755 parents took advantage of the invitation to attend the inspection of their children. In certain cases the parents themselves had ailments and were prescribed for.

Co-operation of teachers :—A list of the defective pupils was maintained by each teacher and the treatment given to them was followed up. Wherever there was indifference in regard to the treatment of the children, the teacher made it a point to see them frequently and persuade them. In certain cases the staff accompanied the medical inspectors, when the latter paid house visits to the homes of sick pupils.

School sanitation:—As in previous years attention was paid to the sanitary condition of the schools and whenever defects were noticed they were brought to the notice of the authorities. 14 schools were considered unsuitable for school purposes and change of premises was suggested as early as possible. In 60 schools minor defects were noticed and improvements suggested to rectify them.

School latrines:—50 schools had flush-out type of latrines. In 58 schools construction of the above type of latrine was suggested as soon as drainage conditions permitted. The latrines were kept fairly clean.

Water supply:—A sufficient number of taps have been provided for all the schools. Children were given strained tap water for drinking.

Play-ground:—41 schools had no play grounds and the children in these schools had their recreation indoors. In one school the children were taken to the open space nearby.

School equipment:—Every school had adequate and suitable furniture and equipment.

School baths: —59 schools had bath-rooms for the use of the children. Dirty children were given baths during the recess hours. They were also instructed to wash their clothes during their baths.

Midday meals:—82 schools and 4,500 children were supplied with midday meals as against 79 schools and 4,200 children in the previous year. The medical inspection staff visited the schools at the time the children were fed to ensure satisfactory sanitary conditions.

Propaganda:—142 lectures and 364 talks were arranged in the different schools on health subjects. The total attendance at these was 13,210. Charts relating to school hygiene were exhibited in the divisional health exhibitions. The details of propaganda work done are given below:—

No.	Subject.	No. of lectures.	No. of talks.	Remarks.
1.	Small-pox.	19	21	
2.	Cholera.	30	39	
3.	Tuberculosis.	23	53	
4.	Malaria.	5	3	
5.	Hookworm.	5	6	
6.	Leprosy.	29	127	
7.	Flies.	5	21	
8.	Personal hygiene.	15	60	
9.	Ventilation and housing.	1	9	
10.	Mosquitoes.	...	5	
11.	Water-supply.	2	3	
12.	Enlarged tonsils.	1	...	
13.	Domestic hygiene.	2	16	
14.	Other subjects.	5	6	
	Total.	142	369	

General remarks:—A new feature of this year's inspection was that the defective children were given differently coloured prescription cards. Children advised treatment at the Corporation dispensaries were given white cards and those referred to the Government hospitals were provided with pink ones, with the names of the different hospitals printed on them. The name of the hospital at which the child was advised treatment was ticked off. These were known as 'Preference cards' so that on the production of the card the child could at once be identified as a Corporation school pupil and receive the attention it required.

This has had the desired effect and prompt attention was paid to all such children going to the Government hospitals for treatment with these preference cards.

Infectious Diseases Hospital.

Infectious Diseases Hospital, Tondiarpet:—1,254 cases of infectious diseases were admitted into the hospital during the year as compared with 2,688 during 1933. The largest number of admissions was for chicken-pox (383). 351 cases of small-pox and 175 cases of cholera were admitted. The mortality rate for the year was 14·3 per cent as against 16·7 per cent in the previous year.

Infectious Diseases Hospital, Krishnampet:—677 cases were admitted into this hospital during the year. Of these 256 were for small-pox and 204 for cholera. The mortality rate for the year in this hospital was 25·74 as against 13·3 for 1933. The increase in the mortality is due to the large number of cases of cholera which accounted for 98 deaths.

Details of all cases treated in the hospitals and dispensaries are furnished in the statements appended to this report.

Aided Institutions.

An account of the public health work done by various institutions in the City is furnished below.

Chengalvaraya Naicker's Free Ayurvedic Dispensary, Vepery:—During the year 1934 this dispensary rendered medical aid to 2,26,642 patients as against 2,15,831 patients in 1933. Patients from all nationalities resorted to it for treatment.

Chennapuri Annadhana Samajam, Park Town:—The Society fed 74,696 poor people without distinction of caste or creed. 574 poor persons were clothed during the year.

Friend-in-need Society:—The object of the Society is to relieve deserving poor and to suppress mendicity among the Europeans and Anglo-Indians. The number of inmates in the home during the year 1934 was 84—23 men, 41 women and 20 children. The total amount spent by the Society towards the various kinds of relief afforded by it was Rs. 34,195.

Government Victoria Caste and Gosha Hospital:—The number of patients treated in the hospital during 1934 shows an increase by 200 in-patients and 2,494 out-patients as compared with the figures for 1933. The total number of labour cases both normal and abnormal was 2,208, an increase of 55 cases over that of last year though the abnormal deliveries were unusually heavy.

San Thome Dispensary:—During the year under report 12,587 patients were attended to by this dispensary.

Sri Kanyaka Parameswari Devasthanam Dispensary:—The total number of patients treated was 93,439 as against 92,122 of last year.

The Madras Society for the Protection of Children:—The Society took care of 44 boys and 23 girls under the Madras Children Act, 1920.

Unani Dar-Ush-Shifa, (Free Unani Dispensary) High Road, Triplicane:—The total number of patients treated in 1934 was 1,26,402.

Ambal Siddha Vaidya Free Dispensary:—The number of patients treated during the year 1934 was 33,326.

The Sociological Brotherhood, Triplicane:—This institution organised a series of magic lantern lectures on health topics and took keen interest on the question of housing scheme. The propagandists of the society have attempted to make the village people of Kuppamcherri keep the localities cleaner.

The Triplicane Annadhana Samajam:—32,739 poor people were fed during the year.

Siddhananda Free Dispensary:—16,408 patients were treated in this dispensary.

Saraswathi Sangam Dharma Oushadalaya, Pedariar Koil Street:—The total number of patients treated during the year was 26,229.

Saraswathi Sangam Free Dispensary, Chindatripet:—This dispensary treated 33,715 patients during the year under report.

Report of the Port Health Officer on the working of the Plague Regulations at the Port of Madras for the calender year 1934.

Incoming vessels :—739 vessels arrived here during the year from different ports with 65,490 crew and 55,077 passengers as against 623 vessels with 58,475 crew and 55,596 passengers in the previous year.

Out-going vessels:—707 vessels with 60,571 crew and 76,164 passengers were inspected and granted bills of health during the year as against 548 vessels with 49,108 crew and 37,310 passengers in the previous year.

Epidemic and Infectious Diseases:—1 case of measles, 1 case of chicken-pox, and 1 case of mumps were landed from the ships and sent to the Corporation Infectious Diseases Hospitals.

Disinfection of bedding and clothing of deck passengers and crew landing and embarking here is carried on at the discretion of the Port Health Officer as usual. The disinfection shed is in charge of a sub-assistant surgeon and a nurse is employed to assist in examining the female passengers.

Rats on steamers:—No deaths among rats were found on any of the vessels that entered the harbour during the year under report.

Report of the Public Analyst for the City of Madras for the Year 1934.

During the year ending 31st December 1934, 1,000 samples were received for analysis under the Madras Prevention of Adulteration Act, 1918 as against 697 received during the previous year. Six informal samples were also received for analysis during the year under report—one bought in the local market, one submitted along with a complaint to the Health Officer and the other four from the Corporation Infectious Diseases Hospital, Tondiarpet.

Of the 1,000 samples taken under the Prevention of Adulteration Act, 986 were analysed and reported upon during the year. Report on 14 samples was pending on 31st December 1934. Of the 986 samples analysed during the year, 634 samples were found to be genuine and the remaining 352 samples were reported as adulterated. The percentage of adulterated samples during the year was 35·7.

The samples consisted of ghee, butter, milk, gingelly oil, coffee powder, tea and cocoanut oil. A tabular statement of the samples analysed and the results of analysis during the years 1934 and 1933 is given below.

Nature of samples.	Number of samples analaysed in 1934.	Number of adulterated samples in 1934.	Percentage of adulterated samples in 1934.	No. of samples analysed in 1933.	Percentage of adulterated samples in 1933.
Ghee ...	460	205	44·5	368	47·6
Butter ...	114	31	27·2	63	11·1
Milk ...	105	44	41·9	63	46·0
Gingelly oil ...	259	72	27·8	155	20,0
Coffee powder ...	26	...	...	5	...
Tea ...	21	...	...	13	...
Cocoanut oil ...	1	...	...	...	...
Total ...	986	352	35·7	667	36·3

During the year under report 986 samples were analysed as against 667 in the previous year. The percentage of adulterated samples during the year was 35·7 as against 36·3 in the previous year. As in the previous year, a very large proportion of the samples analysed during 1934 consisted

of ghee and a good number of the adulterated ghee samples had been orally declared as such by the vendors but were certified as adulterated with a view to prosecuting the vendors for infringing the labelling regulations.

There has been only a slight decrease in the percentage of adulteration during 1934 from that of 1933. There is a noticeable decrease in adulteration in the case of ghee and milk, and increase in the case of gingelly oil and butter. In the case of butter the adulteration has increased considerably as a result of the vendors resorting to adulteration of butter with foreign fat, whereas such adulteration was very rare in the previous years. The common adulteration of this article had hitherto been only the addition of water in excess of the prescribed limit of 20 per cent.

The question of ghee again calls for special mention. A large number of samples had been certified as adulterated for prosecution of the vendors under the labelling regulations. These were orally declared as adulterated to the Food Inspectors but no doubt passed off as genuine to the public. Again among the samples certified as genuine, there is a considerable number of samples which, though mixtures of ghee with foreign fat, had to be let off since they were labelled correctly according to regulations. These labels most often contain ridiculously low percentages of ghee stated thereon, so that the vendors could always escape prosecution. These vendors, mainly hawkers, deceive the public by saying that their stuff is really genuine ghee and that the labels are there only to satisfy the Corporation Food Inspectors.

In both the cases mentioned above, the public are deceived into buying adulterated ghee as genuine.

The interests of the public can be better safe-guarded and the administration of the Act made easier only by completely prohibiting the sale of mixtures of ghee with other fats.

The nature and extent of adulteration of the various articles are given below.

Ghee: 460 samples were analysed during the year and 205 were found to be adulterated. Of the 460 samples, 201 samples were sold as 'Ghee' or 'Genuine Ghee'; 161 were declared as mixtures by the vendors but not labelled according to regulations and the remaining 98 were labelled according to regulations. Among the 201 samples sold as 'Ghee', 63 were found to be adulterated. Of the 161 samples declared as mixtures, 138 samples were found to be adulterated. Out of the 98 samples labelled according to regulations as mixtures of ghee with other fat, 4 samples were reported as adulterated due to these samples consisting either entirely of foreign fat or the percentage of ghee being incorrectly stated on the labels. The adulterants used mostly consisted of hardened vegetable oils and the extent of adulteration ranged from 10 per cent to entire substitution.

Butter:—114 samples were analysed and 31 were reported as adulterated. Of the adulterated samples, 12 samples contained water in excess of the prescribed limit of 20 per cent and the excess ranged from 5 to 25 per cent. 18 samples contained foreign fat ranging from 10 to 30 per cent. One sample contained both excess water and foreign fat.

Milk:—105 samples were analysed of which 68 were samples of cow's milk and the remaining 37 buffalo's milk. Added water ranging from 5 to 63 per cent was found in 39 samples. 2 samples were deficient in fat, 2 samples were deficient in fat and also contained added water and one sample contained added water and one per cent of cane sugar evidently added to deceive the lactometer test.

Gingelly Oil:—259 samples were analysed. The adulterant used was as usual ground-nut oil and was detected in 72 of the samples. The degree of adulteration varied from 15 per cent to entire substitution.

Coffee powder :—26 samples were analysed and all were found to be genuine.

Tea :—21 samples were analysed and all of them were found to be genuine.

Cocoanut oil :—One sample was analysed and reported as genuine.

The number of samples received and reported as adulterated during the year was 352 out of which in the case of 239 samples convictions were obtained during the year, 2 ended in acquittals, 103 samples were pending disposal on 31st December 1934 and in the case of the remaining 8 samples prosecutions were either not launched or withdrawn. 10 samples received in 1933 were reported upon as adulterated only during the year under report and 36 samples were already pending disposal at the end of 1933. Of these 46 samples, 41 ended in convictions during the year under report and the remaining five had to be withdrawn since the vendors could not be traced.

Details of the action taken on the adulterated samples are given in the statement below.

Nature of samples.	No. of adulterated samples of 1934.	No. of samples reported as adulterated in 1933 but disposed of in 1934.	No. of samples received in 1933 but reported as adulterated in 1934.	Total number of adulterated samples.	No. of adulterated samples pending disposal on 31st December 1934.	No. of samples which ended in acquittals, withdrawals, 'No prosecutions' etc.	No. of convictions.	Total fines.			Average fine per conviction in 1934.	No. of convictions in 1933.	Average fine per conviction in 1933.
								Rs.	A.	P.	Rs.		Rs.
Ghee ...	205	28	6	239	59	9	171	2,904	12	0	17	229	25
Butter ...	31	...	...	31	8	5	18	313	0	0	17	8	21
Milk ...	44	6	3	53	9	1	43	643	4	0	15	48	17
Gingelly oil ...	72	2	1	75	27	...	48	844	8	0	18	50	24
Coffee powder ...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tea ...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cocoanut oil ...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	352	36	10	395	103	15	280	4,705	8	0	17	335	24

It will be seen from the above statement that there have been 280 convictions during the year under report as against 335 in the previous year. The total fines during the year under report amounted to Rs. 4,705–8–0. The average fine per conviction has been only Rs. 17 during the year under report as against Rs. 24 during the previous year. Instead of the fines becoming heavier they have become lighter as will be seen from the figures for the average fine per conviction during the year under report compared with that of the previous year. It has again to be emphasised that so long as deterrent fines are not inflicted, there will not be any success in the prevention of adulteration of food-stuffs, as the vendors can easily defray the fines from a negligible portion of their illegitimate profits and still continue the sale of adulterated food-stuffs.

It is hoped that heavy and deterrent fines will be inflicted in all cases under the Prevention of Adulteration Act at least hereafter.

Six informal samples were received during the year. One was a sample of "Cocogem" bought in the local market on a complaint that it contained animal fat but on analysis it was found to consist of pure refined cocoanut oil. Two samples of bread were received from the Infectious Diseases Hospital, Tondiarpet and both were certified to be not up to the

standard on account of their excess acidity. One sample of bread received along with a complaint was found to contain small insects and hence condemned. Two samples of milk were sent from the Infectious Diseases Hospital, Tondiarpet and both contained added water and cane sugar. The cane sugar should have been added to deceive the lactometer test by which the purity of the milk was being tested in the hospital.

In conclusion, the Analyst would like to mention that he is considerably handicapped in his work on account of the insufficiency of working space in the present laboratory which is not able to accommodate the two sections, namely Food Analysis and Water Analysis. As such it is highly desirable that a separate building is provided for the Food Analysis section as early as possible.

V. VENKATACHALAM, M. A.,

Public Analyst, Corporation of Madras.

Report of the Water Analyst for the year 1934.

General.

During the year under report the method of filtration continued to be the same as in the previous year and the city water supply was free from sulphuretted hydrogen and the concomitant growth of sulphur bacteria. The daily average consumption of water rose to 22·17 million gallons from 21·11 million gallons last year. The average dose of chlorine applied to filtered water was 0·87 parts per million. Limnological studies of Sholavaram and Red Hills lakes were continued.

Scientific.

I. Meteorological conditions in the city.

Maximum hours of bright sunshine were recorded in February and May and minimum in July. In December the wind was blowing with a maximum daily velocity of 235 miles and in August with a minimum daily velocity of 148 miles. Heaviest rainfall was recorded in October. There was practically no rainfall in February, March and May.

II. Sholavaram Lake.

(*a*) *Physical conditions.* i. The total rainfall in the lake region was 37·34 inches as against 53·44 inches in the preceding year. (Table II).

ii. The lake level was highest in January and lowest in July. (Table II).

iii. The vertical and seasonal changes in the temperature of the lake water are shown in Table III. The maximum temperature was reached on 29–4–34 and the minimum on 21–1–34.

(*b*) *Chemical conditions.* i. The maximum absolute oxygen content was observed on 29–7–34 and the minimum on 30–9–34 for the surface water. (Table IV). The top layer was found to be supersaturated on two occasions viz. on 30–3–34 and 29–7–34. (Table IV).

ii. Only on one occasion the surface water was found to contain dissolved free carbonic acid *i.e.* on 21–1–34. (Table VIII.) The figure for carbonates expressed as CO_3 ion was highest on 29–4–34 and lowest on 17–11–34 for the surface water. (Table VIII)

The bicarbonate content expressed as HCO_3 ion was found to be at its maximum on 22–12––34 and minimum on 26–8–34 for the surface water (Table VIII).

iii. The maximum pH value 9·1 was recorded on 25–6–34, 26–8–34 and 30–9–34 and the minimum of 8·0 on 21–1–34. The pH value was nearly the same at all depths for each month. (Table V).

iv. The surface water contained largest quantities of silicates on 11–3–34 and smallest on 30–9–34. (Table VI).

v. On 29–7–34 maximum figures for total solids, fixed solids and ignitible matter and combined chlorine were obtained. (Table VII).

vi. Oxidisable organic matter was found to be highest on 29–7–34 and lowest on 22–12–34. (Table VII).

vii. Nitrites and nitrates were absent.

(*c*) *Bacteriological results*:—This was found to be varying from month to month. Lactose fermenters were present in as small a quantity as 1 c.c. and in as large a quantity as 60 c.cs., and upwards. The total colonies per c.c. were highest in December and lowest in March, April and May. (Table VII).

III. Red Hills Lake.

(*a*) *Physical conditions*:—i. The total rainfall recorded during the year in the lake region was 40·33 inches as against 46·4 inches during the previous year, showing a fall of 6·07 inches. (Table II).

ii. May was the hottest month showing a mean temperature of 88·8° F. (Table II).

iii. The lake reached its maximum level in January and minimum in August. (Table II).

iv. The temperature of surface water was at its maximum on 29–4–34 and minimum on 21–1–34 and 22–12–34.

The maximum difference in temperature between the surface and bottom layers viz. 3·2° C. was reached on 11–3–34. (Table IX). Graph I.

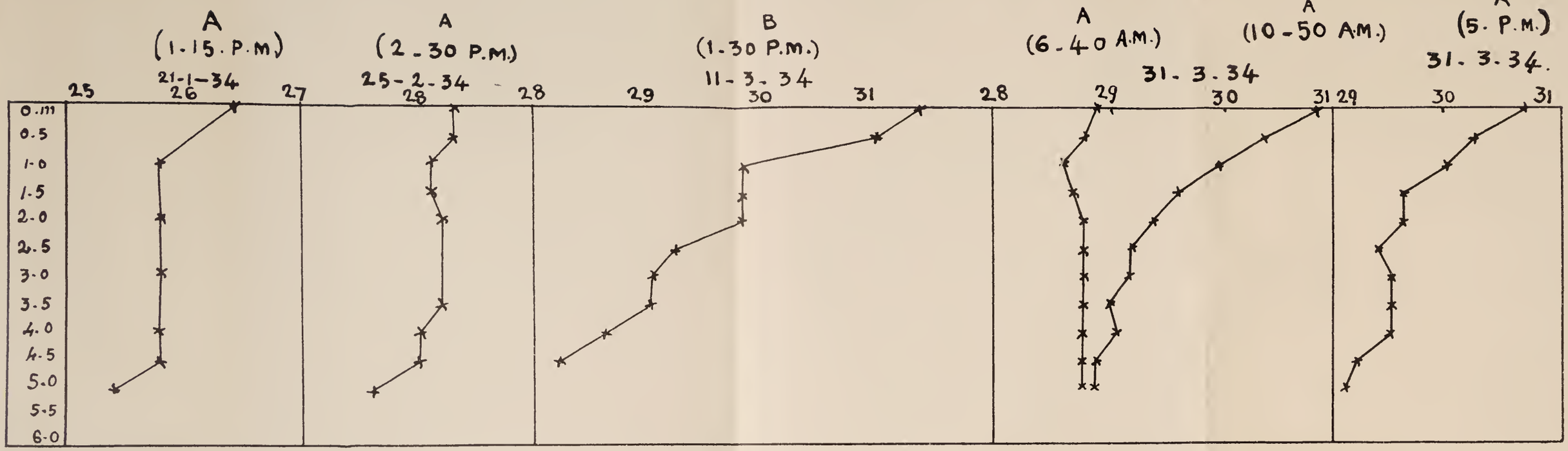
(*b*) *Chemical conditions*:—i. The maximum figure for the absolute oxygen content of the surface water was shown on 21–1–34 and the minimum on 26–8–34. The surface water was supersaturated with 102·6% of oxygen on 31–3–34 (5 p.m. sample). The differences in the figures for the absolute oxygen content between the surface and bottom layers never exceeded 1 c.c. per litre during the year. (Table X)

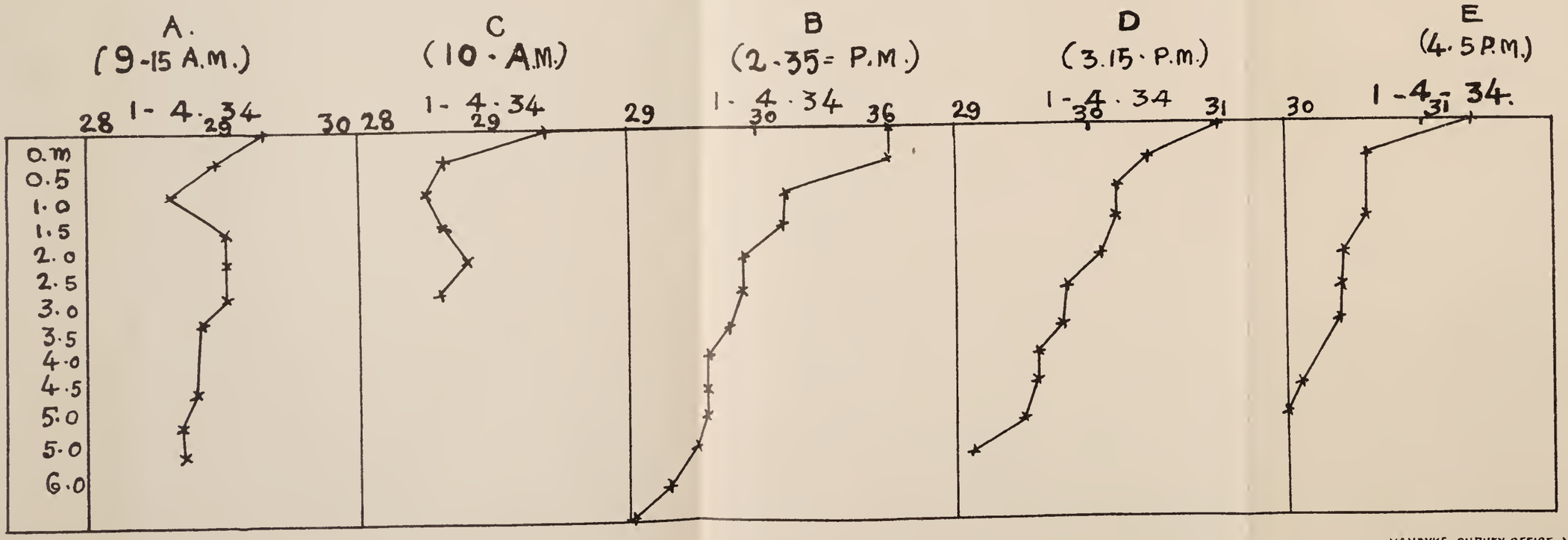
ii. Dissolved free carbonic acid was absent in the surface water throughout the year. The figure for carbonates was at its maximum on 30–9–34 and minimum on 25–2–34 and 2–4–34 (10–20 A. M.) The bicarbonate figure was highest on 25–6–34 and lowest on 21–1–34. (Table XI).

iii. The highest pH value was recorded on 26–8–34, 30–9–34 and 28–10–34 and the lowest on 3–4–34 and 29–4–34. This was nearly the same at all depths for each month (Table XII.)

GRAPH-I.

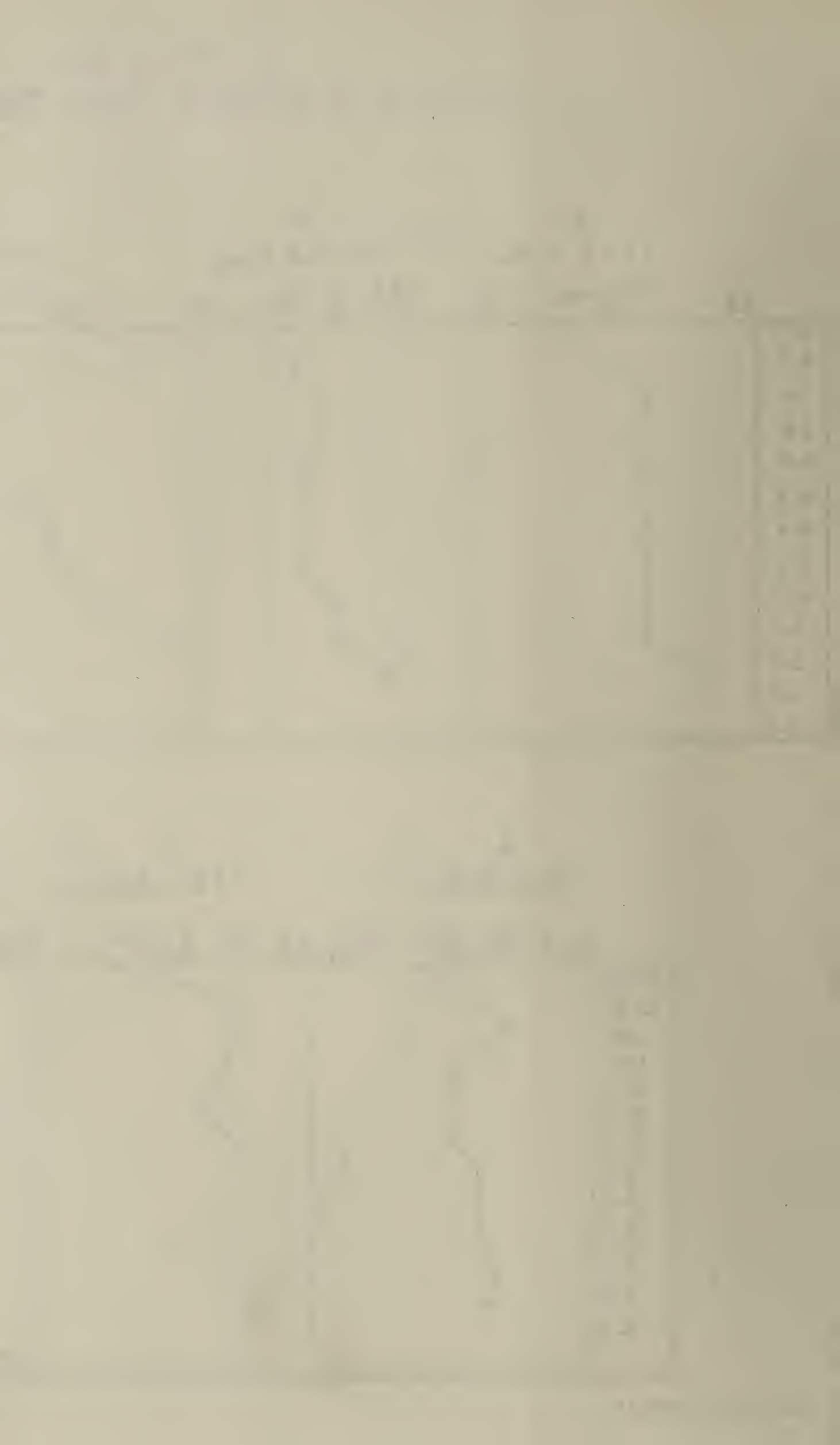
TEMPERATURE CURVES - REDHILLS LAKE. 1934



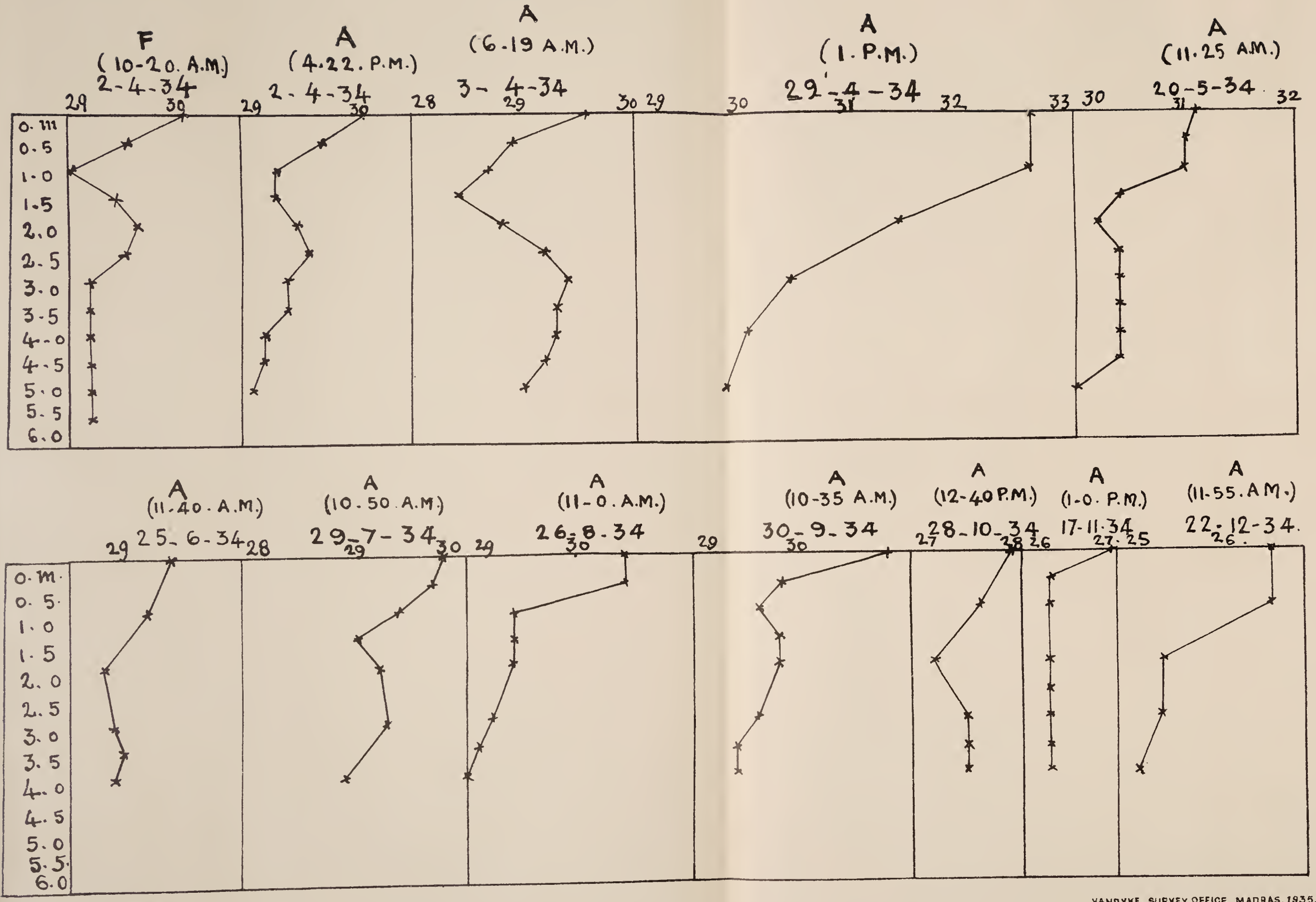


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GRAPH I (CONTD).



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iv. The silicate content was at its maximum on 25-6-34 and minimum on 11-3-34 and these figures were nearly the same at all depths for each month. (Table XIII).

v. On 28-10-34 maximum figures for total solids, fixsed solid and ignitible matter were recorded. (Table XIV).

vi. Highest figure for oxidisable organic matter was obtained on 29-7-34 and lowest on 22-12-34. (Table XIV).

vii. Nitrites and nitrates were absent.

(*c*) *Bacteriological results*:—The lake water was of highest purity on 21-1-34 and on 11-3-34 while the samples collected during the other months were found to be varying in quality. (Table XIV).

IV. Raw water at the Kilpauk end

(*a*) *Physical conditions*:—i. The average temperature of the surface water was found to be maximum in May and minimum in December. (Table XV).

ii. The water was most transparent in March. (Table XV).

(*b*) *Chemical conditions*:—i. The dissolved oxygen content was found to be highest in January and lowest in September. (Table XV).

ii. Dissolved free carbonic acid was noticed only on one occasion. The carbonates were found in their maximum in October and minimum in November The bicarbonates reached their maximum figure in June and the minimum figure in February. (Table XV).

iii. The chlorides were highest in August and lowest in January. (Table XV).

iv. The pH value was found to increase gradually from January to October. (Table XV).

v. The figure for oxidisable organic matter was highest in August and lowest in March. (Table XVII). Graph II.

(*c*) *Bacteriological results*:—Raw water was of fair quality almost throughout the year. Lactose fermenters were absent in 60 c.cs. in 2·1% of the samples ; they were present in 60 c.cs. and upwards in 2.8% of the samples, in 20 c.cs. and up-wards in 15·3% ; in 10 c.cs. and upwards in 31·1% ; in 5 c.cs. and upwards in 43·8%; in 1 c.c. and upwards in 4·9% of the samples examined during the year. The average total colonies per c.c. was 722 Table XVI).

V. Filtrates from beds.

Bacteriologically the number of first-class samples (L.F. in $\pm$60 c.c.) for the year was found to be 21·9%. (Table XVI). On the chemical side the average figure for " ammoniacal nitrogen" showed an increase over the raw water figure, while the oxidisable organic matter and " albuminoid nitrogen" were reduced to about 17% and 15% respectively. (Table XVII).

VI. Test Tap Samples.

The average number of first-class samples was found to be 89·8% as against 71·9% in the previous year. Chemically a reduction of 17·5% in he oxidisable organic matter was effected over the corresponding figure for the filtrates from beds. The figures for "ammonias" also snowed a slight reduction. (Table XVII).

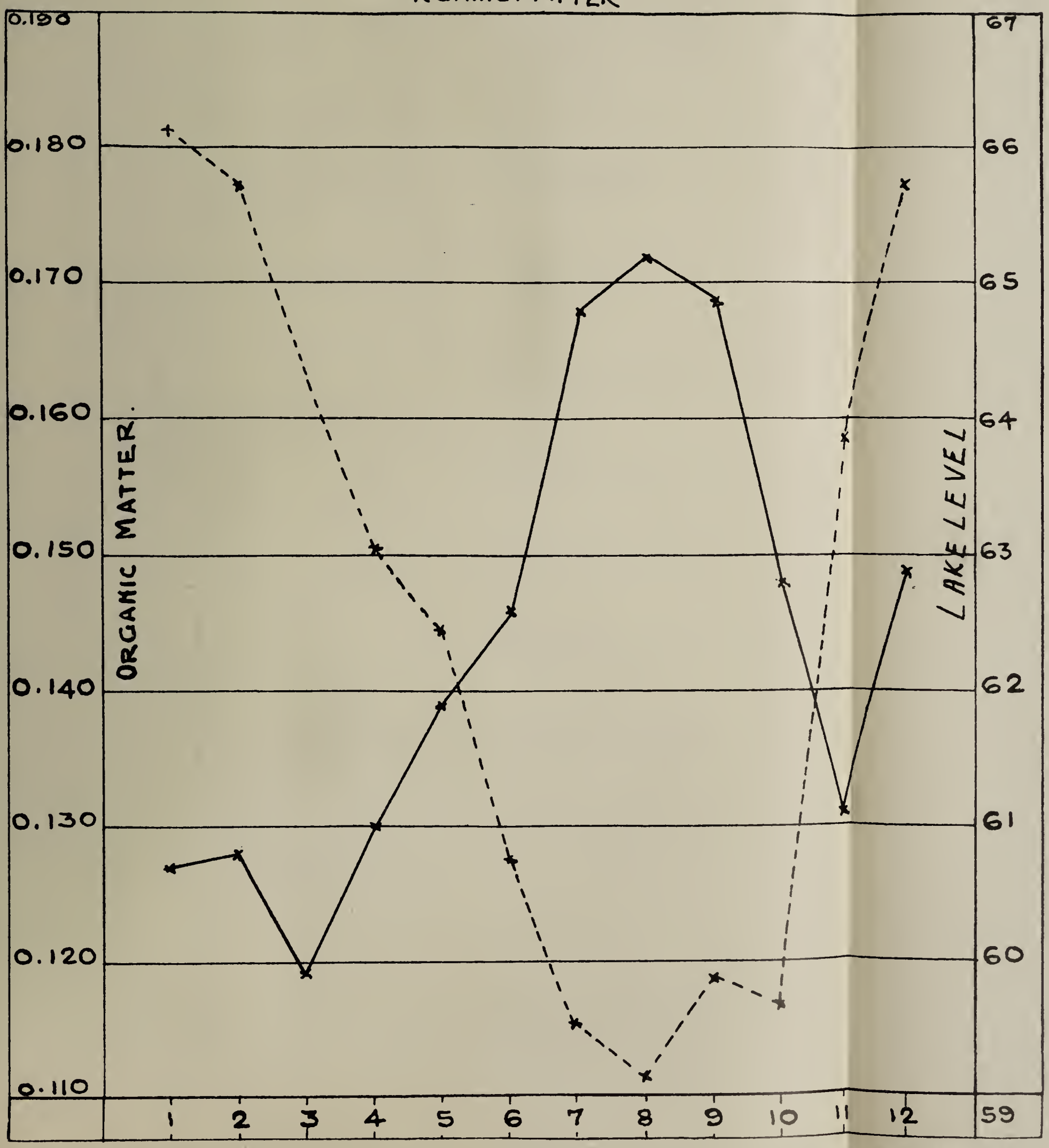
VII. Distribution System.

A distinct fall in the number of first-class samples was noticeable from the bacteriological point of view. Chemically a further reduction in "albuminoid nitrogen" and "absorbed oxygen" was evident over the Test tap samples.

Water Works,
Kilpauk,
23-6-35.

S. V. GANAPATI, M. SC., A.I.C.,
Water Analyst, Corporation of Madras.

GRAPH II SHOWING THE RELATION BETWEEN LAKE LEVEL & ORGANIC MATTER (ABSORBED OXYGEN FIGURES KILPAUK END) FOR 1934



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VANDYKE, SURVEY OFFICE, MADRAS. 1935.

Annual Form No. A :—Meteorological Data for 1934–Madras.

Latitude:–13° 4' North.

Longitude:–80° 15' East.

Months.	Barometer.	Reading of Thermometer.								Rainfall.		
		Dry.				Dew point.						
	Mean daily reading reduced to 32° F Sea level and gravity.	Maximum.	Minimum.	Mean daily range.	Mean daily value.	Mean daily value.	Mean Maximum Solar Radiation.	Difference between dew point temperature and Mean air temperature.	Degree of humidity complete Saturation being 100.	Prevailing direction of wind.	Number of days on which rain fell.	Total fall of rain during the Month.	Maximum fall of rain during 24 hours.
January ...	29·883	82·5	70·3	12·2	75·9	68·6	Not available.	7 3	80	NE by N	8	2·05	0·86
February ...	·888	85·5	66·5	19·0	75·6	67·1		8·5	77	East	...	... 2.05	...
March ...	·821	88·5	71·5	17·0	79·7	70·3		9·4	76	SE by E	...	...	...
April ...	·744	92·4	77·7	14·7	83·8	74·9		8·9	78	SE by S	1	0·74	0·74
May ...	·696	98·2	81·8	16·4	87·5	74·4		13·1	69	S by E	...	... 2·54	...
June ...	·649	96·9	80·3	16·6	86·7	71·4		15·3	64	SW by S	12	1·80	0·58
July ...	·647	95·0	78·8	16·2	85·3	71·9		13·4	68	do	13	2·04	0·46
August ...	·693	93·0	77·3	15·7	83·4	72·9		10·5	74	do	14	7·16 11·20	2·98
September ...	·707	93·5	78·1	15·4	84·2	72·3		11·9	72	do	9	2·00	1·29
October ...	·791	88·1	75·6	12·5	81·0	74·1		6·9	83	E by S	17	16·82	4·82
November ...	·877	84·8	71·1	13·7	77·6	68·8		8·8	76	NE by N	10	1·86 20·87	1·09
December ...	·945	82·5	68·3	14·2	74·9	66·5		8·4	77	NNE	11	2·19	0·57
Annual Mean	29,778	90·1	74·8	15·3	81·3	71.1		10·2	75	SE	95	36·66	4·82

Annual Form No. I.—Births registered by divisions during the year 1934.

1	2	3			4			5			6	7	8	9			10	11
Divisions.	Districts.	Population according to the Census of 1931.			No. of births registered.			Ratio of births per 1000 of Population.			Number of Males born to every 100 Females born.	Excess of births over deaths per 1000 of population.	Excess of deaths over births per 1000 of population.	Mean ratio of births per 1000 during pervious 5 years.			Still births.	*Illegitimate births.
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.				Males.	Females.	Total.		
1	Royapuram ...	10,949	11,003	21,952	427	426	853	39·0	38·7	38·9	100·2	5·0	...	42·5	40·2	41·3	30	26
2	Tondiarpet ...	13,189	12,722	25,911	684	647	1,331	51·9	50·9	51·4	105·7	12·2	...	50·8	48·0	49·4	89	17
3	Washermanpet ...	13,064	12,599	25,663	641	624	1,265	49·1	49·5	49·3	102·7	6·7	...	45·7	43·8	44·8	54	2
4	Korukkupet ...	13,191	12,347	25,533	588	614	1,202	44·6	49·7	47·1	95·8	5·4	...	43·8	38·9	38·3	75	1
5	Harbour ...	5,483	3,221	8,704	164	153	317	29·9	47·5	36·4	107·2	2·8	...	27·9	42·5	33·3	22	3
6	Muthialpet ...	8,377	5,880	14,257	230	226	456	27·5	38·4	32·0	101·8	10·0	...	25·7	37·8	30·7	24	...
7	Katchaleswaranpet.	6,856	5,851	12,707	275	286	561	40·1	48·9	44·1	96·2	12·0	...	36·3	40·3	38·2	29	5
8	Kothawal Bazaar...	4,013	2,537	6,550	96	88	184	23·9	34·7	28·1	109·1	...	4·3	22·2	32·7	26·3	6	1
9	Amman Koil ...	10,078	9,124	19,202	419	382	801	41·6	41·9	41·7	109·7	6·4	...	39·3	42·5	40·8	42	4
10	Seven Wells ...	10,414	9,880	20,294	414	388	802	39·8	39·3	39.5	106·7	3.8	...	35·8	37 0	36·4	35	10
11	Sowcarpet ...	4,160	3,034	7,194	91	92	186	22·6	30·3	25·9	102·2	...	3.8	20·9	29 7	24·6	4	1
12	Peddunaickenpet...	11,135	10,412	21,547	467	454	921	41·9	43·6	42·7	102·9	5·0	...	41·0	42·6	41·8	52	6
13	Trevelyan Basin ...	9,681	9,235	18,916	357	314	671	36·9	34·0	35·5	113 7	2·0	...	37·1	35·2	36·2	27	8
14	Esplanade ...	2,325	1,581	3,906	53	61	114	22·8	38·6	29·2	86·9	...	0·5	23·7	31·0	26·6	4	...
15	Park Town ...	9,615	7,568	17,183	356	330	686	37·0	43·6	39·9	107·9	7·9	...	32·3	39·1	35·3	19	...
16	Perambur ...	23,176	20,641	43,817	984	942	1,926	42·5	45·6	44·0	104·5	8·3	...	38·8	41·6	40·1	59	28
17	Choolai ...	14,249	13,239	27,488	700	675	1,375	49·1	51·0	50·0	103·7	8·4	...	46·6	45·1	45·9	60	13
18	Purasawalkam ..	13,968	13,086	27,058	584	558	1,142	41·8	42·6	42·2	104·7	7·0	...	40·3	41·3	40·8	34	8
19	Vepery ...	12.373	9,764	22,137	419	401	820	33·9	41·1	37·0	104·5	3·3	...	33·9	43·2	38·0	37	7
20	Egmore ...	15,363	14,022	29,385	826	759	15,85	53·8	54·1	53·9	108·8	18·5	...	50·2	53·0	51·5	124	10
21	Kilpauk ..	13,075	11,259	24,334	449	500	949	34·3	44·4	39·0	89·8	5·0	...	32·6	36·3	34·3	51	4
22	Nungambakam ...	14,512	12,726	27,238	548	521	1,069	37·8	40·9	39·2	105·2	9.0	...	34·9	37·4	36·1	55	19
23	Chintadripet ...	13,917	12,928	26,845	668	591	1,259	48·0	45·7	46·9	113·0	10·0	...	44·9	43·9	44·4	57	18
24	Tiruvateeswaranpet	16,223	15.148	31,371	758	765	1,523	46·7	50·5	48·5	99·1	10·9	...	47·0	46·7	46·9	56	4
25	Chepauk ...	9,394	7,698	17,092	445	400	845	47·4	52·0	49·4	111·3	17·0	...	43·4	48·6	45·8	57	6
26	Triplicane ...	10,301	9,213	19,514	380	350	730	36·9	38·0	37·4	108·6	6·2	...	36·2	38·5	37·3	47	17
27	Amir Mahal ...	10,135	9,480	19,615	439	427	866	43·3	45·0	44·1	102·8	3·2	...	43·0	42·2	42·6	28	1
28	Mirsahibpet ...	13,860	13,483	27,343	743	687	1,430	53·6	51·0	52·3	108·2	7·9	...	44·9	42·6	43·8	88	5
29	Royapettah ...	17,284	15,919	33,203	728	699	1,427	42·1	43·9	43·0	104·1	7·0	...	37·3	38·8	38·0	77	3
30	Mylapore ...	10,863	10,407	21,270	465	388	853	42·8	37·3	40·1	119·8	12·7	...	35·9	35·1	35·5	36	4
	Total ...	3,41,223	3,06,007	6,47,230	14,401	13,748	28,149	42·2	44·9	43·5	104·7	6·9	...	39·5	41·6	40·5	1378	231

* Included in the total births shown in columns 4 and 10.

Annual Form No. II—Statement of Deaths by Divisions during the year 1934.

1	2	3	4	5			6			7	8													9			10		
Divisions.	Districts,	Area in acres.	Density per acre.	Population according to the Census of 1931.			No. of deaths, registered.			No. of deaths of males to every 100 deaths of females.	Deaths per 1,000 of population from													All causes.			Mean ratio of deaths per 1,000 during previous Five years.		
				Males.	Females.	Total.	Males.	Females.	Total.		Cholera.	Small-pox.	Measles.	Plague.	Malaria.	Enteric fever.	Other fevers.	Dysentery and Diarrhoea.	Tuberculosis.	Other respiratory diseases.	Injuries.	Deaths from child birth.	All other causes.	Males	Females.	Total.	Males.	Females.	Total.
1	Royapuram ...	557	39·4	10,949	11,003	21,952	410	334	744	122·8	0·1	...	...	...	0·2	0·05	3·5	4·1	0·8	7·7	0·2	5·9	17·0	37·4	30·4	33·9	36·5	34·5	35·5
2	Tondiarpet ...	464	56·7	13,189	12,722	25,911	530	486	1,016	109·1	0·2	0·3	...	...	0·3	0.04	3·6	4·3	1·1	8·8	0·3	9·8	19·7	40·2	39·0	39·2	49·2	41·4	41·5
3	Washermanpet ...	321	79·9	13,064	12,599	25,663	588	504	1,092	116·7	0·2	0·6	..	...	0·2	0·2	5·9	2·1	1·4	9·9	0·7	7·9	21·0	45·0	40·0	42·2	41·6	40·0	40·9
4	Korukkupet ...	2093	12·2	13,191	12,347	25,538	546	518	1,064	105·4	0·7	0·5	...	...	0·3	0·1	5·6	2·5	1·7	9·0	0·5	24·1	19·5	41·4	42·0	41·7	38·1	37·3	37·7
5	Harbour ...	114	76·3	5,483	3,221	8,704	143	150	293	95·3	0·1	...	...	...	1·3	0·1	5·5	1·6	0·9	7·7	0·2	18·9	15·5	26·1	46·6	33·6	33·7	47·2	37·5
6	Muthialpet ...	986	67·1	8,377	5,880	14,257	152	162	314	93·8	...	...	...	...	0·6	...	3·4	0·8	0·8	4·8	0·1	11·0	11·2	18·1	27·6	22·0	20·5	29·1	24·1
7	Katchaleswaranpet ...	112	113·5	6,856	5,851	12,707	212	197	409	107·6	0·1	...	...	...	0·8	0·3	3·8	1·8	1·4	8·3	0·6	7·1	14·7	30·9	33·7	32·2	31·1	35·7	33·2
8	Kothawal Bazaar ...	96	68·2	4,013	2,537	6,550	117	95	212	123·2	...	...	...	...	1·2	0·3	4·7	1·4	0·9	10·4	0·3	5·4	13·0	29·2	37·4	32·4	23·7	35·9	28·4
9	Amman Koil ...	110	174·6	10,078	9,124	19,202	378	301	679	125·6	0·2	0·2	...	...	0·5	0·1	4·5	2·1	1·7	8·5	0·2	18·7	16·6	37·5	33·0	35·4	33·1	37·8	35·4
10	Seven Wells ...	123	165·0	10,414	9,880	20,294	350	374	724	93·6	0·1	0·1	...	...	0·6	0·1	5·3	4·3	1·5	9·1	0·1	18·7	15·1	33·6	37·9	35·7	41·0	39·5	40·3
							*161	*45	*206																				
11	Sowcarpet ...	58	130·8	4,160	3,034	7,194	106	107	213	99·1	...	0·1	...	...	0·4	...	4·7	1·0	2·4	6·5	...	10·8	14·2	25·5	35·3	29·6	28·1	32·6	31·4
12	Peddunaickenpet ...	155	139·0	11,135	10,412	21,547	388	426	814	91·1	...	0·09	...	...	0·6	0·2	5·6	2·2	1·4	10·2	0·7	11·9	16·2	34·8	40·9	33·1	35·6	38·8	37·1
13	Trevelyan Basin ...	114	166·0	9,681	9,235	18,916	326	308	634	105·8	0·1	...	...	...	0·8	0·3	4·7	2·1	0·7	8·8	0·5	6·0	15·4	33·7	33·4	33·5	33·4	35·3	34·4
14	Esplanade ...	139	28·1	2,325	1,581	3,906	70	46	116	152·2	...	0·3	...	...	0·3	0·5	4·9	...	1·5	6·4	1·5	17·5	14·8	33·1	29·1	29·7	24·1	27·8	25·6
							*298	*59	*357																				
15	Park Town ...	120	143·2	9,615	7,568	17,183	285	266	551	107·1	...	0·3	...	...	0·5	0·3	4·5	2·0	0·6	7·9	0·8	8·7	14·4	29·6	35·1	32·0	32·3	37·1	34·5
16	Perambur ...	2528	17·3	23,176	20,641	43,817	802	759	1,561	105·7	0·1	0·09	...	...	0·09	0·05	3·9	4·1	1·4	9·4	0·3	10·9	15·4	34·6	36·8	35·6	31·0	34·1	32·5
17	Choolai ...	230	119·0	14,249	13,239	27,488	596	547	1,143	109·0	0·5	0·2	...	...	...	0·1	2·2	4·4	1·9	12·7	0·4	10·9	18·7	41·8	41·3	41·6	39·7	39·1	39·4
18	Purasawalkam ...	269	101·9	13,968	13,086	27,054	511	441	952	115·9	0·1	0·1	...	...	...	0·3	2·0	4·4	2·3	10·2	0·2	7·0	15·2	36·6	33·6	38·9	33·3	37·3	35·2
19	Vepery ...	450	49·2	12,373	9,764	22,137	379	367	746	103·3	0·1	0·2	...	...	0·05	0·4	1·6	4·0	3·4	9·2	0·4	8·5	14·2	30·6	37·6	33·7	33·5	38·8	35·8
20	Egmore ...	698	42·1	15,363	14,022	29,385	524	516	1040	101·6	0·1	0·3	...	...	0·1	0·6	1·6	2·6	1·7	9·0	0·07	21·5	18 1	34·1	36·8	35·4	30·3	35·1	32·6
21	Kilpauk ...	1099	22·1	13,075	11,259	24,334	417	411	828	101·5	0·1	0·3	...	...	...	...	·9	3·9	2·2	7·8	0·2	6·3	18·3	31·9	36·5	34·0	21·7	28·5	29·0
22	Nungambakam ...	1996	13·6	14,512	12,726	27,238	411	412	823	99·8	0·3	0·1	...	...	0·7	0·3	1·0	3·5	1·4	8·7	0·3	10·3	14·0	28·3	32·4	30·2	25·4	28·2	26·7
23	Chintadripet ...	201	133·6	13,917	12,928	26,845	543	447	990	121·5	0·3	...	...	...	0·1	0·5	2·5	2·9	2·8	10·1	0·1	7·9	17·1	39·0	34·6	36·9	36·9	38·4	37·6
24	Tiruvateeswaranpet ...	333	81·4	16,223	15,148	31,371	611	569	1,180	107·4	0·6	0·2	...	...	0·03	0·1	3·2	1·9	0·8	8·5	0·7	8·5	21·1	37·7	31·0	37·5	39·8	40·6	40·2
25	Chepauk ...	705	24·2	9,394	7,698	17,092	277	277	554	100·0	0·2	0·2	0·06	...	0·2	0·4	2·4	3,3	2·3	7·7	0·1	10·7	14·9	29·5	36·9	32·4	27·3	37·0	31·7
26	Triplicane ...	168	16·1	10,301	9,213	19,514	321	288	609	111·5	0·4	0·05	0·05	...	0·5	0·2	2·4	2·3	2·5	7·4	0·5	19·2	14·2	31·2	31·3	31·2	29·5	32·0	30·7
27	Amir Mahal ...	169	116·0	10,135	9,480	19,615	405	398	803	101·8	0·3	0·05	...	...	0·2	0·3	2·8	2·6	0·6	9·5	0·7	12·7	23·5	40·0	42·0	40·9	40·7	40·5	40·6
28	Mirsahibpet ...	680	40·2	13,860	13,483	27,343	639	575	1,214	111·1	0,8	0·3	0·07	...	0·3	0·2	·5	4·4	1·6	10·6	0·5	7·7	24·7	46·1	42·7	44·4	39·4	40·4	39·9
29	Royapettah ...	3115	40·6	17,284	15,919	33,203	627	568	1,195	110·4	0·5	0·3	0·03	...	0·1	0·3	4·8	3·6	1·5	6·6	0·2	4.9	17·7	36·3	35·7	36·0	28·6	30·4	29·5
30	Mylapore ...	1525	14·0	10,863	10,407	21,270	309	274	583	112·8	0·5	0·4	0·09	...	0·1	0·09	2·0	1·7	1·4	7·1	0·09	10·6	15·2	28·4	26·3	27·4	31·1	31·8	31·5
	Total ...	19,728	32·8	3,41,223	3,06,007	6,47,230	12,432	11,227	23,659	110·7	0.3	0·2	0·01	...	0·3	0·2	3·2	5·1	1·7	8·9	0·4	11.1	17·7	36·4	36·7	36·6	33·7	36·2	35·6

*Includes 206 and 357 deaths in the Government Royapuram and General Hospital of patients admitted from moffusil and destitutes.

Annual form No. III.—Deaths registered by divisions during each month of the year 1934.

1	2	3												4
Divisions.	Districts.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total deaths Registered during the year 1934.
1	Royapuram ...	73	86	71	60	49	62	51	52	63	62	56	59	744
2	Tondiarpet ...	104	91	48	79	88	100	80	85	86	78	76	101	1,016
3	Washermanpet ...	106	120	73	86	107	76	75	85	92	90	83	99	1,092
4	Korukkupet ...	113	93	63	65	76	86	110	90	103	90	83	92	1,064
5	Harbour ...	25	27	22	20	30	33	16	27	18	25	29	21	293
6	Muthialpet ...	23	25	21	27	26	24	31	26	23	32	25	21	314
7	Katchaleswaranpet ...	40	34	38	31	31	33	30	26	37	29	43	37	409
8	Kothawal Brzaar ...	17	16	23	7	20	23	22	15	16	18	18	17	212
9	Ammen Koil ...	58	59	57	51	46	52	55	56	44	65	57	79	679
10	Seven Wells ...	75	88	91	60	68	82	68	74	68	87	72	97	930
11	Sowcarpet ...	17	19	22	19	18	23	11	18	14	16	12	24	213
12	Peddunaickenpet ...	72	80	57	48	80	60	71	63	70	61	84	78	814
13	Trevelyan Basin ...	60	55	58	39	51	44	57	65	54	40	63	48	634
14	Esplanade ...	47	39	38	37	38	31	42	25	44	52	47	33	473
15	Park Town ...	47	45	49	40	45	36	49	41	46	39	47	67	551
16	Perambur ...	119	133	124	100	111	108	123	145	131	133	130	204	1,561
17	Choolai ...	89	101	89	76	89	84	102	113	118	92	88	102	1,143
18	Purasawalkam ...	59	86	83	70	82	74	88	84	91	66	72	97	952
19	Vepery ...	66	44	59	61	59	52	60	92	54	68	67	64	746
20	Egmore ..	82	74	85	77	103	95	79	103	83	71	85	103	1,040
21	Kilpauk ...	72	64	74	76	64	56	76	82	66	54	78	66	828
22	Nungambakkam ...	78	72	68	54	56	64	63	77	56	75	76	84	823
23	Chintadripet ...	103	72	78	75	90	71	71	105	71	78	89	87	990
24	Tiruvateeswaranpet ...	109	104	95	32	101	80	101	112	92	83	109	112	1,180
25	Chepauk ...	48	38	46	40	43	57	50	45	41	47	55	44	554
26	Triplicane ...	60	37	55	48	77	38	38	45	50	44	61	56	609
27	Amir Mahal ...	69	60	74	55	66	68	64	68	53	79	69	78	803
28	Mirsahibpet ...	97	84	106	90	94	71	95	130	112	100	104	131	1,214
29	Rayapettah ...	111	133	77	96	96	93	96	120	96	89	102	86	1,195
30	Mylapore ...	46	66	52	45	33	38	43	56	47	45	72	40	583
	Total ...	2,085	2,045	1,896	1,714	1,937	1,814	1,907	2,125	1,939	1,908	2,052	2,237	23,659

Annual Form No. IV.—Deaths registered according to age by divisions during the year 1934.

1	2	3		4		5		6		7		8		9		10		11		12	
Divisions.	Districts	Under 1 year		1 year and under 5 years		5 years and under 10 years		10 years and under 15 years		15 years and under 20 years		20 years and under 30 years		30 years and under 40 years		40 years and under 50 years		50 years and under 60 years		60 years and upwards.	
		Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females
1	Royapuram ...	119	105	78	67	13	13	14	5	7	8	26	16	32	25	29	20	24	15	68	60
2	Tondiarpet ...	157	136	90	86	25	18	3	10	12	13	22	51	43	30	31	32	41	30	106	80
3	Washermanpet ...	196	159	90	74	26	25	7	15	10	19	58	45	38	35	37	28	36	31	90	73
4	Korukkupet ...	168	146	79	78	25	20	7	13	12	18	44	67	42	55	36	34	44	23	89	64
5	Harbour	37	47	17	26	2	6	3	4	1	6	16	11	19	10	14	5	5	7	29	26
6	Muthialpet ...	41	42	24	27	10	3	3	2	3	6	3	17	9	7	21	18	17	14	21	28
7	Kachaleswaranpet ...	76	54	23	32	5	3	2	6	3	10	19	18	13	15	16	11	19	13	36	35
8	Kothawal Bazaar ...	32	21	17	8	4	3	5	1	3	7	14	5	11	8	8	9	8	13	15	20
9	Ammen Koil ...	107	63	51	43	14	8	7	7	9	17	31	26	38	23	23	19	25	28	72	68
10	Seven Wells ...	120	77	59	62	17	18	14	9	12	24	47	45	46	39	63	31	53	41	80	73
11	Sowcarpet ...	21	20	10	11	2	6	1	1	3	6	8	11	4	11	15	12	20	9	22	20
12	Peddunaickenpet ...	105	108	62	91	18	10	7	13	10	14	38	36	25	27	24	23	37	33	62	71
13	Trevelyan Basin ...	92	87	37	51	18	11	7	8	9	11	22	32	28	27	24	17	32	17	57	47
14	Esplanade ...	14	13	17	16	7	2	8	1	15	6	71	16	82	11	77	12	43	16	34	12
15	Park Town ...	86	73	34	53	5	5	5	9	7	9	25	26	25	10	25	27	22	16	51	38
16	Perambur ...	257	193	160	188	28	40	14	26	9	24	43	66	48	42	58	32	43	33	142	115
17	Choolai ...	206	154	100	106	29	20	10	7	13	20	31	52	28	39	34	20	47	33	98	96
18	Purasawalkam ...	138	111	109	68	17	23	10	8	9	15	31	45	31	32	41	31	43	31	82	77
19	Vepery ...	108	80	57	61	14	21	3	9	8	10	29	37	32	25	26	26	30	27	72	71
20	Egmore ..	186	147	82	86	19	13	9	12	11	25	31	56	44	56	42	30	32	23	68	68
21	Kilpauk ...	83	98	75	61	18	19	8	13	7	14	24	43	39	43	41	22	37	22	85	76
22	Nungambakkam ...	100	113	75	72	13	10	10	7	8	18	39	40	36	28	30	25	30	28	70	71
23	Chintadripet ...	168	110	84	85	15	16	14	8	16	20	35	61	38	25	38	26	48	26	87	70
24	Tiruvateeswaranpet ...	172	140	103	96	18	21	10	11	17	23	46	42	41	39	48	38	44	26	112	133
25	Chepauk ...	77	81	49	48	7	8	2	7	7	15	16	24	16	31	24	9	32	15	48	38
26	Triplicane ...	98	64	56	43	3	13	10	2	3	8	18	30	21	29	37	22	27	17	48	60
27	Amir Mahal ...	113	89	60	54	17	14	5	4	11	13	29	40	37	40	33	27	23	30	75	87
28	Mirsahibpet ...	194	156	105	110	27	24	8	11	11	16	47	52	40	36	52	28	39	26	116	116
29	Royapettah ...	183	136	90	98	29	25	16	12	12	24	47	61	41	40	39	31	48	29	124	112
30	Mylapore ...	85	62	53	46	10	11	1	5	8	7	22	32	27	17	22	16	21	22	60	56
	Total ...	3,539	2,885	1,946	1,947	455	429	223	246	266	426	932	1,103	974	855	1,008	681	970	694	2,119	1,961
	Ratio per 1,000 ...	245·8	209·8	63·2	63·6	12·8	12·6	6·6	7·6	7·9	12·6	13·0	16·1	16·4	18·5	26·6	23·8	50·0	42·3	178·7	201·2

Annual Form No. V.—Deaths registered according to class by divisions during the year 1934.

1	2	3					4					5				
Divisons.	Districts.	Population as per Census of 1931.					Number of deaths registerd.					Ratio of deaths per 1,000 of population.				
		Christians.	Hindus.	Mohamadans.	Others.	Total.	Christians.	Hindus.	Mohamadans.	Others.	Total.	Christians.	Hindus.	Mohamadans.	Others.	Total.
1	Royapuram ...	5,797	14,840	1,149	166	21,952	135	555	54	...	744	23·3	37·4	47·0	...	33·9
2	Thondiarpet ...	1,300	22,616	1,914	81	25,911	37	885	94	...	1,016	28·5	39·1	49·1	...	39·2
3	Washermanpet ...	888	23,036	1,728	11	25,663	29	1,006	57	...	1,092	32·7	43·7	33·0	...	42·6
4	Korukkupet ..	976	20,557	3,957	48	25,538	12	850	202	...	1,064	12·3	41·3	51·0	...	41·7
5	Harbour ...	503	3,491	4,687	23	8,704	3	109	181	...	293	6·0	31·3	38·6	...	33·7
6	Muthialpet ...	1,236	12,308	697	16	14,257	5	280	29	...	314	4·0	22·7	41·6	...	22·0
7	Katchaleswaranpet ...	1,838	9,822	995	52	12,707	43	345	21	...	409	23·4	35·1	21·1	...	32·2
8	Kothawal Bazaar ...	185	5,232	1,087	46	6,550	2	197	13	...	212	10·8	37·7	12·0	...	32·4
9	Ammen Koil ...	2,289	12,967	3,839	107	19,202	58	485	136	...	679	25·3	37·4	35·4	...	35·4
10	Seven Wells ...	1,571	17,321	1,265	129	20,294	59	814	57	...	930	37 6	47·0	45·1	...	45·8
11	Sowcarpet ...	14	6,658	34	488	7,194	...	213	...	...	213	...	31·9	...	...	29·6
12	Peddunaickenpet ...	75	21,141	305	26	21,547	3	803	8	...	814	40·0	38·0	26·2	...	37·8
13	Trevelyan Basin ...	38	18,500	86	292	18,916	1	633	...	...	634	26·3	34·2	...	...	33·5
14	Esplanade ...	275	3,387	164	80	3,906	7 *28	109 *315	14	...	116 *357	25·5	32·2	85·4	...	29·7
15	Park Towm ...	665	16,189	219	110	17,183	9	541	1	...	551	13·5	33·4	4·6	...	32·1
16	Perambur ...	2,175	33,024	8,409	209	43,817	66	1,123	372	...	1,561	30·3	35·8	44·2	...	35·6
17	Choolai ...	1,427	25,525	507	29	27,488	31	1,090	22	...	1,143	21·7	42·7	43·4	...	41·6
18	Purasawalkam ...	4,088	22,347	528	91	27,054	95	836	21	...	952	23·2	37·4	39·8	...	35·2
19	Vepery ...	4,116	15,922	1,940	159	22,137	91	599	56	...	746	22·1	37·6	28·9	...	33·7
20	Egmore ...	5,080	21,313	2,902	90	29,385	135	797	108	..	1,040	26·6	37·3	37·2	...	35·4
21	Kilpauk ...	3,584	20,002	726	22	24,334	83	718	27	...	828	23·2	35·9	37·2	...	34·0
22	Nungambakkam ...	4,365	21,036	1,723	114	27,238	83	685	55	...	823	19·2	32·6	31·9	...	30·2
23	Chintadripet ...	1,951	23,550	1,220	124	26,845	61	887	42	...	990	31·3	37·7	34·4	...	36·9
24	Tiruvateeswaranpet ...	1,071	19,646	10,578	76	31,371	28	739	413	...	1,180	26·1	37·6	39·0	...	37·6
25	Chepauk ...	603	12,817	3,665	7	17,092	8	394	152	...	554	13·3	30·7	41·5	...	32·4
26	Triplicane ...	94	19,002	391	27	19,514	3	588	18	...	609	31·9	30·9	46·0	...	31·2
27	Amir Mahal ...	785	11,314	7,505	11	19,615	22	516	265	...	803	28·0	45·6	35·3	...	40·9
28	Mirsahibpet ...	1,145	20,846	5,271	81	27,313	29	898	286	1	1,214	25·3	43·1	54·3	12·3	44·4
29	Royapettah ...	2,481	28,612	1,956	154	33,203	55	1.057	83	...	1,195	22·2	36·9	42·4	...	36·6
30	Mylapore ...	3,507	17,147	584	32	21,270	64	502	17	...	583	18·2	29·3	29·1	...	27·4
	Total ...	54,122	5,20,176	70,031	2,901	6,47,230	1285	19,569	2804	1	23,659	23·7	37·6	40·0	0·3	36.6

* Includes deaths in the Government General Hospital of patients admitted from moffusil and destitutes.

Annual Form No. VI.-- Deaths registered from "CHOLERA" by divisions during each month of the year 1934.

1	2	3												4			5			6
Divisions.	Districts.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total. Males.	Total. Females.	Total. Totals.	Ratio of deaths per 1000 of population. Males.	Females.	Total.	Mean ratio pre 1,000 during previous five years.
1	Royapuram ...	2	...	...	...	...	1	...	...	...	...	...	...	1	2	3	0·1	0·2	0.1	0·09
2	Tondiarpet ...	1	...	...	...	...	...	...	...	...	...	3	...	2	2	4	0·2	0·2	0·2	0·08
3	Washermanpet ...	...	2	...	...	...	...	...	...	2	...	...	1	2	3	5	0·2	0·2	0.2	0·04
4	Korukkupet ...	...	...	1	...	...	5	...	3	4	1	3	...	8	9	17	0·6	0·7	0.7	0·10
5	Harbour ...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	1	0·2	...	0.1	0·10
6	Muthialpet ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·07
7	Katchaleswaranpet ...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	1	...	0·2	0·1	0·3
8	Kothawal Bazaar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·06
9	Ammen Koil ...	...	...	...	...	...	...	...	...	1	...	2	...	...	3	3	...	0 3	0·2	0·05
10	Seven Wells ...	...	...	...	...	...	...	...	...	2	...	1	...	2	1	3	0·2	0·1	0·1	0·05
11	Sowcarpet ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·03
12	Peddunaickenpet ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·14
13	Trevelyan Basin ...	...	...	...	...	...	...	...	1	...	...	...	...	1	...	1	0.1	...	0·1	0·05
14	Esplanade ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·10
15	Park Town ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·06
16	Perambur ...	...	...	...	...	...	1	...	2	1	...	...	1	2	3	5	0·1	0·1	0·1	0·09
17	Choolai ...	...	...	...	...	...	...	2	9	2	...	...	1	7	7	14	0·5	0·5	0·5	0·10
18	Purasawalkam ...	...	...	...	...	...	...	...	...	3	...	...	...	2	1	3	0·1	0·1	0·1	0·04
19	Vepery ...	...	...	1	...	...	...	...	...	...	...	1	...	1	1	2	0·1	0·1	0·1	0·09
20	Egmore ...	...	...	...	...	...	...	...	1	2	...	...	...	2	1	3	0 1	0·1	0·1	0·10
21	Kilpauk ...	...	...	...	...	...	...	...	2	...	...	...	...	1	1	2	0·1	0·1	0·1	0·20
22	Nungambakkam ...	...	...	...	...	...	...	...	4	...	...	4	...	6	2	8	0·4	0·2	0·3	0·04
23	Chindadripet ...	...	1	...	...	...	...	...	5	...	...	...	1	1	6	7	0·1	0·5	0·3	0·07
24	Tiruvateeswaranpet ...	1	1	...	...	...	...	1	2	5	1	6	2	6	13	19	0·4	0·9	0 6	0·06
25	Chepauk ...	...	...	...	...	...	...	...	1	1	...	...	2	3	1	4	0·3	0·1	0·2	0·06
26	Triplicane ...	...	...	...	...	...	1	4	1	...	...	1	...	6	1	7	0·6	0·1	0·4	0 05
27	Amir Mahal ...	...	...	...	...	...	1	...	1	1	...	2	...	2	3	5	0·2	0·3	0·3	0·05
28	Mirshibpet ...	1	...	...	...	...	3	1	5	2	1	5	4	14	8	22	1·0	0 6	0·8	0·20
29	Rayapettah ...	...	1	...	...	...	2	1	8	1	2	2	...	7	10	17	0·4	0·6	0·5	0·06
30	Mylapore ...	...	...	...	...	...	...	...	5	1	...	4	...	3	7	10	0·3	0·7	0·5	0·05
	Total ...	5	5	2	...	...	15	9	50	28	5	35	12	80	86	166	0·2	0·3	0·3	0·09

Annual form No. VII.—Deaths registered from "Small Pox" by Divisions during each month of the year 1934.

1	2	3												4			5			6
Divisions.	Districts.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total Males.	Total Females.	Total Total.	Ratio of deaths per 1,000 of population Males.	Ratio of deaths per 1,000 of population Femles.	Ratio of deaths per 1,000 of population Total	Mean ratio per 1,000 during previons five years.
1	Royapuram ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·7
2	Tondiarpet ...	...	...	...	1	4	...	1	1	2	...	...	...	5	4	9	0·4	0·3	0·3	0·5
3	Washermanpet ...	6	3	1	...	1	1	...	1	...	2	...	...	7	8	15	0·5	0·6	0·6	0·5
4	Korukkupet ...	2	2	1	3	4	1	1	1	...	...	...	...	10	5	15	0·8	0·4	0·5	0·6
5	Harbour ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·0
6	Muthialpet ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·5
7	Katchaleswaranpet ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·9
8	Kothawal Bazaar ...	...	...	...	...	...	...	...	...	...		...	...	...	...	...	...	...	...	0·9
9	Amman Koil ...	1	1	1	...	...	...	...	...	...	...	...	...	2	1	3	0·2	0·1	0·2	0·5
10	Seven Wells ...	...	...	2	...	...	...	...	...	...	...	...	...	2	...	2	0·2	...	0·1	0·4
11	Sowcarpet ...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	1	0·2	...	0·1	0·4
12	Peddunaickenpet ...	...	...	...	...	...	1	...	...	...	...	1	...	2	...	2	0·2	...	0·09	0·6
13	Trevelyan Basin ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	0·5
14	Esplanade ...	...	...	...	...	..	...	...	1	...	...	...	...	1	...	1	0·4	...	0·3	0·7
15	Park Town ...	4	...	..	1	1	.	...	...	...	...	..	...	4	2	6	0·4	0·3	0·3	0·5
16	Peramabur ...	2	1	...	1	...	...	...		...	...	..	...	3	1	4	0·1	0·05	0·09	0·4
17	Choolai ...	2	1	2	...	...	...	..	...	...	...		...	4	1	5	0·3	0·08	0·2	0·8
18	Purasswalkam ...	...	...	2	...	1	...	...	...	...	...	...	1	1	3	4	0·07	0·2	0·1	0·7
19	Vepery ...	1	...	1	2	...	...	...	...	...	...	...	1	2	3	5	0·2	0·3	0·2	0·5
20	Egmore ...	2	1	1	2	2	1	...	...	...	...	...	...	4	5	9	0·3	0·4	0·3	0·2
21	Kilpauk ...	1	...	2	2	...	...	2	...	1	...	...	...	4	4	8	0·3	0·4	0·3	0·3
22	Nungambakkam ...	1	...	...	...	1	...	...	1	...	...	...	...	3	...	3	0·2	...	0·1	0·2
23	Chintadripet ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·4
24	Tiruvateeswaranpet ...	1	1	2	...	...	...	...	...	...	...	1	1	1	5	6	0·06	0·3	0·2	0·4
25	Chepauk ...	1	1	...	1	...	...	...	...	...	...	1	...	3	1	4	0·3	0·1	0·2	0·4
26	Triplicane ...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	1	...	0·2	0·05	0·6
27	Amir mahal ...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	1	0·1	...	0·05	0·4
28	Mirsahibpet ...	1	1	3	...	...	1	...	...	2	...	...	1	4	5	9	0·3	0·4	0·3	1·1
29	Rayapettah ...	1	1	2	2	...	...	1	1	...	...	...	1	3	6	9	0·2	0·4	0·3	0·5
30	Mylapore ...	3	3	1	2	...	...	...	...	...	...	...	...	6	3	9	0·6	0·3	0·4	0.8
	Total ...	29	16	21	17	15	5	5	6	5	2	3	7	73	58	131	0·2	0.2	0·2	5.8

Annual Form No. VIII—Deaths registered from "MEASLES" by Divisions during each month of the year 1934.

1	2	3												4			5			6
Divisions.	Districts.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total. Males.	Total. Females.	Total. Total.	Ratio of Deaths per 1,000 of Population. Males.	Females	Total.	Mean ratio per 1,000 during previous five years.
1	Royapuram	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·05
2	Tondiarpet	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·04
3	Washermanpet	..	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·008
4	Korukkupet	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	....	...
5	Harbour	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	Muthialpet	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	Katchaleswaranpet	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·03
8	Kothawal Bazaar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	Ammen Koil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·05
10	Seven Wells	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·05
11	Sowcarpet	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	Peddunaickenpet	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·05
13	Trevelyan Basin	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·02
14	Esplanade	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1
15	Park Town	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·02
16	Perambur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·002
17	Choolai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·007
18	Purasawalkam	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·007
19	Vepery	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·05
20	Egmore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·07
21	Kilpauk	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	0·02
22	Nungambakkam	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·03
23	Chintadripet	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1
24	Tiruvateeswaranpet	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·06
25	Chepauk	...	...	...	...	...	1	...	...	...	...	...	...	...	1	1	...	0·1	0·06	0·06
26	Triplicane	...	...	...	1	...	...	...	...	...	...	...	...	1	...	1	0·1	...	0·05	0·2
27	Amir Mahal	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·02
28	Mirsahibpet	...	1	1	...	...	...	...	...	...	...	...	...	2	...	2	0·1	...	0·07	0·1
29	Rayapettah	...	...	1	...	...	...	...	...	...	...	...	...	...	1	1	...	0·06	0·03	0·03
30	Mylapore	...	...	2	...	...	...	...	...	...	...	...	...	2	...	2	0·2	...	0·09	0·1
	Total	...	1	4	1	...	1	...	...	...	...	...	...	...	5	2	7	0·01	0·007	0·01	0·04

Annual Form No. IX Nil.

Annual Form No. X.—Deaths registered from "MALARIA" by divisions during each month of the year 1934.

1	2	3												4			5			6
Division.	Districts.	Janury.	February	March.	April.	May.	June.	July.	August.	September	October.	November	December	Total. Males.	Total. Females.	Total. Total.	Ratio of deaths per 1,000 of population. Males.	Females	Totals.	Mean ratio per 1,000 during previous five years.
1	Royapuram ...	1	...	...	...	...	1	...	...	...	1	1	...	2	2	4	0·2	0·2	0·2	0 4
2	Tondiarpet ...	4	...	...	...	...	1	...	...	2	1	...	...	4	4	8	0 3	0·3	0·3	0·5
3	Washermanpet ...	...	1	...	1	...	...	...	...	1	1	1	..	3	2	5	0·2	0·2	0 2	1·0
4	Korukkupet ...	1	...	1	1	...	1	2	...	2	...	...	...	4	4	8	0·3	0·3	0·3	0·7
5	Harbour ...	...	1	...	...	1	1	...	...	...	4	3	1	7	4	11	1·3	1·2	1·3	0·7
6	Muthialpet ...	...	1	...	...	1	...	2	...	...	2	...	3	1	8	9	0 1	1·4	0·6	0·4
7	Katchaleswaranpet ...	...	...	1	...	1	...	1	...	1	2	2	2	7	3	10	1·0	0·5	0·8	0·3
8	Kothawal Bazaar ...	...	1	...	1	2	...	...	...	1	1	1	1	3	5	8	0·7	2·0	1·2	0·3
9	Amman Koil ...	1	1	1	2	...	2	...	1	1	1	...	...	2	8	10	0·2	0·9	0·5	0·5
10	Seven Wells ...	1	2	1	1	...	2	1	1	1	1	2	2	10 *2	2 *1	12 *3	1·0	5·2	0·6	0·6
11	Sowcarpet ...	1	...	...	1	1	...	...	...	...	...	...	...	2	1	3	0·5	0·3	0·4	0·6
12	Peddunaickenpet ...	2	...	...	2	1	...	..	1	...	1	4	1	7	5	12	0·6	0·5	0·6	0·5
13	Trevelyan Basin ...	...	...	...	...	2	...	3	1	2	1	5	1	7	8	15	0·7	0·9	0·8	0·3
14	Esplanade ..	...	...	...	...	..	...	...	...	1	...	...	1	1 *1	...	1 *1	0·4	...	0·3	1·3
15	Park Town ...	...	1	...	...	1	3	3	...	...	1	...	...	3	6	9	0·3	0 8	0·5	0·2
16	Perambur ...	1	...	...	...	...	...	...	...	1	1	1	...	3	1	4	0·1	0·05	0·09	0 2
17	Choolai ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·9
18	Purasawalkam ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0 6
19	Vepery ...	...	...	...	...	...	...	1	...	...		...	...	1	...	1	0·08	...	0·05	0·4
20	Egmore ...	...	...	...	...	1	1	...	...	2	...	...	...	2	2	4	0·1	0·1	0·1	0·3
21	Kilpauk ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	0·1
22	Nungambakkam ...	...	3	2	2	1	1	1	...	1	1	3	3	7	11	18	0·5	0·9	0·7	0·6
23	Chintadripet ...	1	1	...	1	...	...	...	...	1	...	...	...	2	2	4	0·1	0·2	0·1	0·7
24	Tiruvateeswaranpet ...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	1	0·06	...	0·03	0·7
25	Chepauk ...	...	1	1	...	...	...	1	...	...	1	...	...	2	2	4	0·2	0·3	0·2	0·2
26	Triplicane ...	2	1	2	1	...	1	...	...	1	...	...	1	6	3	9	0·6	0·3	0·5	0·3
27	Amir Mahal ...	...	...	1	...	...	1	1	...	...	...	...	...	2	1	3	0 2	0·1	0·2	0·5
28	Mirsahibpet ...	1	...	3	1	1	...	...	...	1	1	1	...	5	4	9	0·4	0·3	0·3	0·4
29	Rayapettah ..	...	...	...	...	...	...	...	1	1	2	...	...	3	1	4	0·2	0·06	0·1	0·2
30	Mylapore ...	1	1	1	...	...	...	...	...	...	...	...	...	3	...	3	0·3	...	0·1	0·4
	Total ...	17	15	14	14	13	15	16	5	20	24	24	16	103	90	193	0·3	0·3	0.3	0·5

* Includes deaths in the Government Bacteriological and General Hospitals for the population of which the ratio is not calculated.

Annual Form No. XI—Deths registered from "ENTERIC FEVER" by divisions during each month of the year 1934.

1	2	3												4			5			6
Divisions.	Districts.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October	November	December.	Total.			Ratio of death per 1,000 of population.			Mean ratio per 1000 during previons five years.
														Males.	Females	Total.	Males.	Females.	Total.	
1	Royapuram ...	..	...	...	...	...	...	...	1	...	...	...	...	1	...	1	0·9	...	0·05	0·09
2	Tondiarpet ...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	0·08	0·04	0·04
3	Washermanpet ...	...	...	...	1	...	...	...	...	...	1	1	1	1	3	4	0·8	0·2	0·2	0·08
4	Korukkupet ...	...	...	...	...	...	2	1	...	...	...	...	...	1	2	3	0·8	0·2	0·1	0·08
5	Harbour ...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	1	0·2	...	0·1	0·1
6	Muthialpet ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2
7	Katchaleswaranpet ...	...	...	...	2	1	...	...	...	...	...	1	...	4	...	4	0·6	...	0.3	0·3
8	Kothawal Bazaar ...	...	1	...	...	...	...	1	...	...	...	...	...	1	1	2	0·2	0·4	0.3	0·3
9	Ammen Koil ...	...	...	...	1	...	1	...	...	...	...	...	...	...	2	2	...	0·2	0.1	0·2
10	Seven Wells ...	...	...	...	...	...	2	1	...	1	...	1	...	2 *2	1 ...	3 *2	0·2	0·1	0.1	0·3
11	Sowcarpet ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3
12	Peddunaickenpet ...	...	2	...	...	...	...	...	1	...	...	...	2	2	3	5	0·2	0·3	0.2	0·2
13	Trevelyan Basin ...	...	...	...	...	1	...	...	1	2	...	1	1	5	1	6	0·5	0·1	0.3	0·2
14	Esplanade ...	...	...	...	...	1	...	...	...	1	2	2	1	... *5	2 ...	2 *5	...	1·3	0.5	2·0
15	Park Town ...	...	1	...	...	1	...	...	...	...	1	...	2	4	1	5	0·4	0·1	0.3	0·3
16	Perambur ...	...	...	1	...	...	...	...	...	...	1	...	...	1	1	2	0·04	0·05	0.05	0·1
17	Choolai ...	...	...	1	1	...	...	...	...	1	...	...	...	2	1	3	0·1	0·08	0.1	0·07
18	Purasawalkam ...	1	...	...	...	...	...	...	...	1	1	3	1	2	5	7	0·1	0·4	0.3	0·1
19	Vepery ...	...	1	...	...	...	...	3	2	...	1	1	1	6	3	9	0·5	0·3	0.4	0·2
20	Egmore ...	1	1	...	2	2	1	...	1	3	2	3	3	8	11	19	0·5	0·8	0.6	0·2
21	Kilpauk ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3
22	Nungambakkam ...	1	1	...	1	...	1	...	...	2	1	...	...	3	4	7	0·2	0·3	0.3	0·07
23	Chindadripet ...	1	1	2	...	2	1	1	1	1	...	3	1	6	8	14	0·4	0·6	0.6	0·2
24	Tiruvateeswaranpet...	...	...	1	...	...	...	1	1	...	...	...	2	2	3	5	0·1	0·2	0.1	0·2
25	Chepauk ...	...	...	...	...	1	...	1	1	1	...	1	1	4	3	7	0·4	0·4	0.4	0·4
26	Triplicane ...	...	...	...	1	...	...	...	1	...	...	1	1	3	1	4	0·3	0·1	0.2	0·3
27	Amir Mahal ...	...	2	1	...	...	1	...	...	...	...	1	1	4	2	6	0·4	0·2	0.3	0·2
28	Mirsahibpet ...	...	...	...	...	...	1	...	1	...	1	...	2	3	2	5	0·2	0·1	0.2	0·1
29	Rayapettah ...	1	1	1	1	...	...	1	2	1	...	1	...	6	3	9	0·3	0·2	0.3	0·2
30	Mylapore ...	...	...	1	...	...	1	...	...	...	...	...	...	2	...	2	0·2	...	0.09	0·1
	Total ...	6	11	9	10	9	12	11	12	13	13	20	19	81	64	145	0·2	0·2	0·2	0·2

* Includes deaths in the Government Royapuram and General Hospital of patients admitted from moffusil and destitutes.

Annual Form No. XII—Deaths registered from "OTHER FEVERS" by divisions during each month of the year 1934.

1	2	3												4			5			6
Divisions.	Districts.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total. Males.	Total. Females.	Total. Totals.	Ratio of deaths per 1000 of population. Males.	Females.	Total.	Mean ratio pre 1,000 during previous five years.
1	Royapuram ...	10	12	12	2	3	6	2	7	3	7	8	4	43	33	76	3·9	3·0	3·5	4·6
2	Tondiarpet ...	7	9	3	3	17	12	4	5	9	14	7	4	52	42	94	3·9	3·3	3·6	4·4
3	Washermanpet ...	15	25	12	9	12	9	14	11	15	12	7	10	81	70	151	6·2	5·6	5·9	3·9
4	Korukkupet ...	23	17	6	9	10	13	14	8	16	7	11	10	77	66	143	5·8	5·3	5·6	3·7
5	Harbour ...	6	3	3	4	2	5	2	5	8	7	1	2	25	23	48	4·6	7·1	5·5	4·6
6	Muthialpet ...	4	3	1	5	1	4	6	5	3	8	2	6	20	28	48	2·4	4·8	3·4	3·2
7	Katchaleswaranpet ...	5	6	4	3	3	7	5	4	3	1	3	4	22	26	48	3·2	4·4	3·8	4·2
8	Kothawal Bazaar ...	1	2	3	1	3	5	3	1	7	...	2	3	20	11	31	5·0	4·3	4·7	2·9
9	Ammen Koil ...	4	11	8	1	5	7	6	10	5	12	8	10	50	37	87	5·0	4·1	4·5	3·9
10	Seven Wells ...	6	12	10	3	7	10	13	11	11	17	2	14	58 *6	50 *2	(108 *8)	5·6	5.0	5·3	3·7
11	Sowcarpet ...	4	2	3	3	2	2	5	5	2	1	1	4	16	18	34	3·8	5·9	4·7	3·8
12	Peddunaickenpet ...	12	10	9	8	9	7	10	8	14	8	12	14	49	72	121	4·4	6·9	5·6	3·7
13	Trevelyan Basin ...	3	4	12	3	5	6	6	12	14	7	11	4	36	53	89	3·7	5·7	4·7	3·8
14	Esplanade ...	4	1	...	1	...	1	2	4	2	3	5	4	9 *6	10 *2	(19 *8)	3·9	6·3	4·9	3·3
15	Park Town ...	3	7	10	6	...	3	8	6	10	11	11	7	37	45	82	3.8	5·9	4·5	3·4
16	Perambur ...	10	16	11	9	11	11	21	23	14	9	13	24	93	79	172	4·0	3·8	3·9	2·9
17	Choolai ...	3	4	4	2	5	2	5	7	5	9	6	8	31	29	60	2·2	2·2	2·2	1·5
18	Purasawalkam ...	2	4	3	6	9	3	5	7	5	1	4	6	29	26	55	2·1	2·0	2·0	1·0
19	Vepery ...	4	3	3	1	3	5	2	6	3	3	2	1	17	19	36	1·4	1·9	1·6	1·9
20	Egmore ...	4	1	7	5	3	5	5	4	3	4	5	2	25	23	48	1·6	1·6	1·6	2·0
21	Kilpauk ...	...	5	1	3	...	...	...	...	2	2	9	1	12	11	23	0·9	1·0	0·9	1·0
22	Nungambakkam ...	...	1	...	2	2	2	1	...	2	3	3	1	10	7	17	0·7	0·6	1·0	1·3
23	Chindadripet ...	2	6	3	6	4	4	5	4	6	8	12	6	36	30	66	2·6	2·3	2·5	2·5
24	Tiruvateeswaranpet. ...	8	7	3	8	8	9	9	11	7	9	10	11	54	46	100	3·3	3·0	3·2	5·1
25	Chepauk ...	3	2	3	5	4	6	3	1	1	2	5	6	22	19	41	2·3	2·5	2·4	2·1
26	Triplicane ...	8	4	1	4	8	1	2	2	2	4	9	2	27	20	47	2 6	2·2	2·4	1·9
27	Amir Mahal ...	4	3	6	6	3	3	4	4	5	5	9	2	27	27	54	2·7	2·8	2·8	4·8
28	Mirsahibpet ...	...	...	...	...	...	...	6	3	1	3	2	...	12	3	15	0·9	0·2	0·5	1·0
29	Royapettah ...	19	15	10	11	16	11	13	17	12	13	12	12	81	80	161	4·7	5·0	4·8	1·7
30	Mylapore ...	...	1	...	...	1	...	...	1	2	1	...	1	2	5	7	0·2	0·5	2·0	1·0
	Total ...	175	196	151	129	156	159	181	192	192	191	192	183	1085	1012	2097	3.2	3·3	3·2	2·8

* Includes deaths in the Government Perambur and General Hospital of patients admitted from mofussil districts.

Diarrhœa by divisions during each month of the year 1934.

1	2	3												4			5			6
Dvisions.	Districts.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.			Ratio of deaths per 1,000 of population.			Mean ratio per 1,000 during previous five years.
														Males.	Females.	Total.	Males.	Femles.	Total	
1	Royapuram ...	11	11	12	5	9	6	7	7	3	9	3	7	47	43	90	4·3	3·9	4·1	3·6
2	Tondiarpet ...	14	8	6	5	8	19	5	12	4	12	9	10	52	60	112	3·9	4·7	4·3	4·2
3	Washermanpet ...	5	7	5	4	7	1	4	7	5	2	6	2	28	27	55	2·1	2 1	2·1	5·7
4	Korukkupet ...	6	5	3	4	3	3	8	7	3	9	7	5	40	23	63	3·0	1·9	2·5	5·3
5	Harbour ...	3	...	...	1	2	1	2	...	...	1	...	4	5	9	14	0·9	2·8	1·6	4·4
6	Muthialpet ...	...	...	...	1	2	...	2	1	1	3	1	...	8	3	11	1·0	0·5	0·8	2·1
7	Katchaleswaranpet...	1	1		2	1	4	3	2	2	3	2	2	14	9	23	2·0	1·7	1·8	3·1
8	Kothawal Bazaar ...	...	...	2	..	1	1	2	...	...	2		1	6	3	9	1·5	1·2	1·4	2·7
9	Ammen Koil ...	4	4	6	5	1	2	6	3	4	2		3	24	16	40	2·3	1·8	2·1	3·7
10	Seven Wells ...	6	8	6	2	8	7	5	12	9	12	3	13	45	42	87	4·3	4·3	4·3	5·2
														*4	...	*4				
11	Sowcarpet ...	...	...	...	...	2	2	2	...	...	...	...	1	...	4	3	7	1·0	1·0	1·0	2·2
12	Peddunaickenpet ...	3	6	4	5	8	4	2	5	2	3	3	3	29	19	48	2·6	1·8	2·2	4·5
13	Trevelyan Basin ...	2	...	1	1	6	4	5	6	2	2	4	6	25	14	39	2·6	1·5	2·1	3 1
14	Esplanade ...	2	2	1	2	3	2	2	1	2	4	5	2	*25	*3	*28	...	...	...	5·1
15	Park Town ...	1	3	5	...	2	5	6	4	3	2	1	3	18	17	35	1·9	2·2	2·0	2·4
16	Perambur ...	9	19	17	15	19	16	8	10	14	13	14	25	87	92	179	3·8	4·5	4·1	4·7
17	Choolai ..	5	10	10	6	11	6	17	11	12	6	10	17	72	49	121	5·1	3·7	4·4	5·7
18	Purasawalkam ...	9	8	8	12	12	13	8	10	7	10	7	16	64	56	120	4·6	4·3	4·4	5·9
19	Vepery ...	9	4	10	6	4	7	9	11	8	7	6	8	45	44	89	3·6	4·5	4·0	3·9
20	Egmore ...	6	6	7	3	9	8	9	6	4	7	4	7	37	39	76	2·4	2·8	2·6	3·9
21	Kilpauk ...	6	8	8	11	10	7	4	11	10	3	8	9	53	42	95	4·1	3·7	3·9	3·5
22	Nungambakam ...	6	9	8	5	2	6	8	14	4	9	10	15	46	50	96	3·2	3·9	3·5	3·2
23	Chintadripet ...	6	10	9	8	4	8	7	6	4	4	3	9	48	30	78	3·4	2·3	2·9	4·5
24	Tiruvteeswaranpet ...	2	10	5	6	8	4	3	4	2	5	3	7	33	26	59	2·0	1·7	1·9	4·9
25	Chepauk ...	1	7	4	1	3	7	6	9	3	2	8	5	25	31	56	2·7	4·0	3·3	3·5
26	Triplicane ...	4	4	4	2	6	4	5	4	4	2	4	2	30	15	45	2·9	1·6	2·3	3·5
27	Amir Mahal ...	1	3	4	3	5	7	6	3	4	2	4	9	28	23	51	2·8	2·4	2·6	4·3
28	Mirsahibpet ...	7	9	12	10	18	7	14	15	11	2	9	6	64	56	120	4·6	4·2	4·4	6·9
29	Royapettah ...	11	11	10	9	15	7	11	9	14	13	3	8	56	65	121	3·2	4·1	3.6	4·8
30	Mylapore ...	5	4	4	3	3	2	4	2	1	3	5	1	21	16	37	1·9	1·5	1·7	6·8
	Total ...	145	177	171	139	192	170	178	192	142	154	143	205	1083	925	2008	3·2	3·0	3·1	4·4

* Includes deaths in the Government Royapuram and General Hospital of patients admitted from moffusil and destitutes.

Annual Form No. XIV.—Death registered from "TUBERCLE" including Tubercle of lungs by divisions during each month of the year 1934.

1	2	3												4			5			6
Divisions.	Districts.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total Males.	Total Females	Total.	Ratio o Deaths for 1,000 of population, Males	Females	Total.	Mean ratio per 1,000 during previous 5 years.
1	Rayapuram ...	...	2	3	1	1	3	2	2	4	...	...	...	11	7	18	1·0	6·4	0.8	0·8
2	Tondiarpet ...	7	3	1	2	3	3	4	3	1	2	...	...	17	12	29	1·3	0·9	1·1	1.0
3	Washermanpet ...	2	1	2	6	3	3	1	4	1	8	2	3	19	17	36	1·5	1·3	1·4	2·3
4	Korukkupet ...	4	4	2	4	1	4	5	6	4	3	3	4	20	24	44	1·5	1·9	1·7	2·2
5	Harbour ...	...	...	...	1	...	...	...	2	...	...	3	2	3	5	8	0·5	1·6	0·9	0·8
6	Muthialpet ...	...	2	2	1	2	1	...	1	1	1	1	...	4	8	12	0·5	1·4	0·8	0·7
7	Katchaleswaranpet...	1	1	2	2	2	3	1	2	2	1	1	...	10	8	18	1·5	1·4	1·4	1·1
8	Kothawal Bazaar ...	...	1	...	...	2	...	1	...	...	1	...	1	4	2	6	1·0	0·8	0·9	0·9
9	Amman Koil ...	3	1	2	1	4	6	3	3	3	1	4	2	16	17	33	1·6	1·9	1·7	1·6
10	Seven Wells ...	3	5	3	2	2	4	8	6	4	9	7	15	9	22	31	0·9	2·2	1·5	2·9
														*29	* 8	*37				
11	Sowcarpet ...	8	2	4	2	2	1	...	1	1	2	1	1	10	7	17	2·4	2·3	2·4	1·4
12	Peddunaickenpet ...	2	6	1	1	2	...	...	1	4	6	5	3	16	15	31	1·4	1·4	1·4	1·8
13	Trevelyanpet ...	11	3	...	...	...	1	2	...	1	1	2	2	6	7	13	0·6	0·8	0·7	1·0
14	Esplanade ...	11	4	3	9	6	3	6	3	3	7	5	5	4	2	6	1.7	1·3	1·5	8·2
15														*54	* 5	*59				
	Park Town ...	...	1	1	2	2	...	...	...	1	1	...	3	6	5	11	0·6	0·7	0·6	7·6
16	Perambur ...	6	2	4	3	4	5	4	10	6	7	3	6	36	24	60	1·6	1·2	1·4	0·9
17	Choolai ...	2	6	5	3	6	7	9	3	6	1	2	3	32	21	53	2·2	1·6	1·9	2·2
18	Purasawalkam ...	5	4	5	4	6	7	3	7	5	6	1	9	38	24	62	2·7	1·8	2·3	2·2
19	Vepery ...	7	11	3	6	6	3	6	7	7	5	5	8	31	43	74	2·5	4·4	3·4	2·2
20	Egmore ...	4	5	4	3	3	3	5	7	4	2	5	5	31	19	50	2·0	1·4	1·7	2·0
21	Kilpauk ...	6	...	4	5	2	3	9	3	4	6	5	6	29	24	53	2·2	2·1	2·2	1·6
22	Nungambakam ...	1	2	2	6	4	2	1	3	3	7	5	2	13	20	38	1·2	1·6	1·4	1·5
23	Chintadripet ...	7	5	11	3	13	5	4	11	1	6	5	5	42	34	76	3·0	2·6	2·8	2·4
24	Tiruvateeswaranpet ..	1	4	4	5	1	1	2	1	1	4	2	...	14	12	26	8·6	0·8	0·8	1·2
25	Chepauk ...	3	2	3	2	1	5	3	2	4	4	6	4	17	22	39	1·8	2·9	2·3	1·9
26	Triplicane ...	1	...	9	3	6	3	3	4	3	5	7	4	20	28	48	1·9	3·0	2·5	1·5
27	Amir Mahal ...	1	3	...	3	1	1	...	...	2	...	...	1	7	5	12	0·7	0·5	0·8	1·5
28	Mirsahibpet ...	3	6	2	9	1	2	2	1	2	5	5	5	24	19	43	1·7	1·4	1·6	1·5
29	Royapettah ...	5	5	2	6	3	3	1	7	5	4	3	6	26	24	50	1·5	1·5	1·5	1·2
30	Mylapore ...	...	2	4	...	1	3	2	4	1	4	4	4	13	16	29	1·2	1·6	1·4	1·3
	Total	86	93	88	95	90	85	87	104	84	109	92	109	616	506	1,122	1·8	1·7	1·7	1·6

Annual Form No XV.—Deaths registered from "RESPIRATORY DISEASES" excluding Tubercle of the Lungs by divisions during each month of the year 1934.

1	2	3												4			5			6
Divisions.	Districts.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total. Males.	Total. Females.	Total. Total.	Ratio of Deaths per 1000 of population. Males.	Females.	Total.	Mean ratio per 1000 during previous five years.
1	Royapuram ...	21	20	21	12	11	10	11	12	14	15	11	11	95	74	169	8.7	6.7	7.7	7.1
2	Tandiarpet ...	16	21	15	19	25	17	21	22	11	19	17	25	121	107	228	9.2	8.4	8.8	8.5
3	Washermenpet ...	29	28	15	24	25	16	18	14	23	18	18	27	150	105	255	11.5	8.3	9.9	9.3
4	Korukkupet ...	31	24	13	9	16	11	18	21	24	24	20	19	113	117	230	8·6	9·5	9.0	7.8
5	Harbour ...	3	7	7	7	9	6	6	3	5	2	5	7	32	35	67	5.8	10.9	7·7	9.3
6	Muthialpet ...	7	3	9	7	3	7	9	4	6	3	7	3	37	31	68	4.4	5.3	4.8	6.2
7	Katchaleswaranpet ...	13	10	9	10	9	6	7	7	9	5	13	8	54	52	106	7.9	8.9	8.3	8.0
8	Kothwal Bazaar ...	7	4	11	1	4	10	4	5	4	8	4	6	42	26	68	10.5	10.2	10.4	5.3
9	Ammen Koil ...	18	15	8	12	10	12	17	11	9	14	13	25	91	73	164	9.0	8.0	8.5	10.5
10	Seven Wells ...	17	19	14	20	19	21	8	20	17	19	12	16	95	90	185	9·1	9·1	9.1	10.0
														*15	*2	*17				
11	Sowcarpet ...	6	5	6	2	4	3	1	5	4	2	5	4	21	26	47	5.0	8.6	6.5	7.6
12	Peddunaickenpet ...	21	21	14	10	24	24	19	20	18	12	23	15	107	114	221	9.6	10.9	10.2	10.2
13	Trevelyan Basin ...	28	13	15	14	14	9	13	16	11	12	11	10	80	86	166	8.3	9.3	8.8	9.0
14	Esplanade ...	11	4	9	5	5	2	6	1	4	4	9	...	15	10	25	6.5	6.3	6.4	10.0
														*26	*9	*35				
15	Park Town ...	19	8	13	13	14	8	8	10	8	7	12	15	66	69	135	6.9	9.1	7.9	9·0
16	Perambur ...	29	32	37	30	32	33	40	21	33	34	33	60	215	199	414	9.3	9.6	9.4	9·1
17	Choolai ...	24	31	32	20	29	23	32	35	39	35	20	29	182	167	349	12.7	12.6	12.7	12.2
18	Purasawalkam ...	20	25	22	17	23	23	35	27	25	17	17	25	156	120	276	11.2	9.2	10.2	10.8
19	Vepery ...	17	9	17	16	18	13	13	25	18	15	25	18	94	110	204	7.6	11.3	9.2	10.3
20	Egmore ...	18	20	18	17	30	30	18	31	25	18	20	19	140	124	264	9.1	8.8	9.0	7.5
21	Kilpauk ...	17	15	16	19	17	16	18	17	17	10	14	15	86	105	191	6.6	9.3	7.8	6.9
22	Nungambakkam ...	24	16	19	16	23	18	20	21	18	24	22	15	117	119	236	8.1	9·4	8.7	7.0
23	Chintadripet ...	32	17	17	29	26	20	19	29	20	26	21	16	147	125	272	10.6	9.7	10.1	10.0
24	Tiruvateeswaranpet...	28	24	28	12	23	23	22	17	27	14	19	31	149	119	268	9.2	7.9	8.5	7.0
25	Chepauk ...	17	9	10	9	14	17	7	8	10	18	8	5	68	64	132	7.2	8.3	7.7	6.7
26	Triplicane ...	14	14	10	11	22	9	8	7	20	8	7	15	80	65	145	7.8	7.1	7.4	6.5
27	Amir Mahal ...	12	15	11	18	21	17	17	17	18	12	12	17	95	92	187	9.4	9.7	9.5	7.5
28	Mirsahibpet ...	22	22	25	9	22	19	23	41	29	25	24	28	148	141	289	10.7	10.5	10.6	9.7
29	Rayapettah ...	23	34	15	17	11	21	17	22	16	16	11	15	129	89	218	7.5	5·6	6.6	7.6
30	Mylapore ...	7	16	17	10	12	9	13	9	19	10	21	9	87	65	152	8.0	6.2	7.1	6.9
	Total ...	551	501	473	415	515	453	468	498	501	446	454	508	3,053	2,730	5,783	8.9	8.9	8.9	8.6

*Includes deaths in the Government Royapuram and General Hospital of patients admitted from moffusil and destitutes.

Annual Form No. XVI–Deaths registered from "INJURIES" by divisions during each month of the year 1934.

1	2	3												4			5			6
Divisions.	Districts.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total. Males.	Total. Females.	Total. Total.	Ratio of Deaths per 1000 of population. Males.	Females.	Total.	Mean ratio per 1000 during previous five Years.
1	Royapuram ...	...	...	1	...	...	2	...	...	...	...	1	1	5	..	5	0·5		0·2	0·3
2	Tondiarpet ...	1	1	...	...	1	1	...	...	...	1	...	2	3	4	7	0·2	0·3	4·3	0·3
3	Washermanpet ...	1	2	3	1	1	3	1	...	...	4	1	...	13	4	17	1·0	0·3	0·7	0·4
4	Korukkupet ...	...	1	...	2	1	1	1	2	...	1	1	3	8	5	13	0·6	0·4	0·5	0·5
5	Harbour ...	...	...	1	...	...	1	...	...	...	...	...	...	2	...	2	0·4		0·2	0·6
6	Muthialpet ...	...	...	...	1	...	...	...	...	...	1	...	...	2	...	2	0·2		0·1	0·2
7	Katchaleswaranpet ...	2	...	...	...	...	1	1	...	4	...	...	...	5	3	8	0·7	0·5	0 6	0·5
8	Kothawal Bazaar ...	1	..	1	...	...	...	...	...	...	...	...	...	2	...	2	0·5		0.3	0·3
9	Ammen Koil ...	...	1	1	...	...	...	...	...	...	1	...	...	3	...	3	0·3		0·2	0·2
10	Seven Wells ...	1	2	1	...	...	1	...	...	...	3	...	2	2	...	2	0·2		0·1	0·5
														*7	*1	*8				0·1
11	Sowcarpet ...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	0·2
12	Peddunaickenpet ...	2	2	1	...	2	...	...	...	...	4	2	2	7	8	15	0·6	0·8	0·7	0·3
13	Trevelyan Basin ...	3	3	...	...	...	...	1	2	...		...	...	3	6	9	0·3	0·6	0·5	4·6
14	Esplanade ...	3	3	5	2	3	8	...	3	2	3	2	4	4	2	6	1·7	1·3	1.5	
														*26	*6	*32				0·5
15	Park Town ...	1	1	2	...	3	...	...	1	3	2	...	1	10	4	14	1·0	0·5	0·8	0·3
16	Perambur ...	...	3	3	...	2	...	...	1	...	1	5	...	9	6	15	0·4	0·3	0·3	0·4
17	Choolai ...	2	1	1	1	1	...	...	...	...	2	2	...	5	5	10	0·4	0·4	0·4	0.2
18	Purasawalkam ...	...	1	...	...	1	...	...	...	...	...	1	2	3	2	5	0·2	0·2	0·2	0·8
19	Vepery ...	1	1	2	...	1	...	2	1	...	...	...	...	8	...	8	0 6		0·4	0·2
20	Egmore ...	1	...	...	...	...	...	...	...	...	1	...	...	1	1	2	0·7	0 07	0·07	0·9
21	Kilpauk ...	...	...	1	1	1	...	1	1	...	...	...	...	4	1	5	0·3	0·09	0·2	0·4
22	Nungambakkam ...	...	...	1	...	...	1	...	1	...	5	...	...	5	3	8	0·3	0·2	0·3	0·2
23	Chindadripet ...	...	...	...	...	...	1	1	...	1	...	...	...	2	1	3	0·1	0·08	0·1	0·3
24	Thiruvateeswaranpet ...	...	3	3	1	4	1	1	2	...	2	3	1	12	9	21	0·7	0·6	0.7	0·5
25	Chepauk ...	...	1	...	...	...	...	...	...	1	...	...	...	1	1	2	0·1	0·1	0·1	0·4
26	Triplicane ...	...	2	...	2	3	...	...	...	2	...	...	1	6	4	10	0·6	0·4	0·5	0·4
27	Amir Mahal ...	1	2	1	...	2	1	...	...	...	3	1	2	9	4	13	0·9	0·4	0·7	0·2
28	Mirsaibpet ...	1	1	...	...	1	1	1	1	1	3	3	...	6	7	13	4·4	0·5	0·5	0.4
29	Royapettah ...	...	3	...	...	...	1	1	...	1	...	...	2	5	3	8	4·3	0·2	0·2	0·2
30	Mylapore ...	...	1	...	...	...	...	...	...	...	1	...	...	1	1	2	00·9	0·1	0·09	
	Total ...	21	35	28	11	27	24	11	15	15	38	22	23	179	91	270	0·5	0·3	0·4	0.4

* Includes deaths in the Government Rayapuram and General Hospital of patients admitted from moffusil and destitutes.

Annual form No. XVII—Deaths registered from "CHILD BIRTH" by Divisions during each month of the year 1934.

1	2	3												4			5			6
Divisions.	Districts.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.			Ratio of Deaths per 1000 of live births delivered.			Mean ratio per 1,000 during the previous five years.
														Males.	Females.	Total.	Males.	Females.	Total.	
1	Royapuram ...	...	...	...	1	1	1	1	...	...	...	...	1	...	5	5	...	...	5·9	7·7
2	Tondiarpet ...	2	2	1	1	...	1	1	...	1	...	3	1	...	13	13	...	...	9·8	15·6
3	Washermanpet ...	...	1	1	1	1	2	1	1	...	1	1	...	...	10	10	...	...	7·9	12·2
4	Korukkupet ...	5	8	1	1	3	3	2	3	...	1	1	1	...	29	29	...	...	24·1	14·3
5	Harbour ...	1	...	...	1	2	...	...	...	...	1	1	...	...	6	6	...	...	18·9	24·1
6	Muthialpet ...	...	...	1	1	...	...	1	...	1	1	...	...	...	5	5	...	...	11·0	11·4
7	Katchaleswaranpet ...	...	2	...	...	...	...	...	...	...	...	...	2	...	4	4	...	...	7·1	10·3
8	Kothawal Bazaar ...	...	...	1	...	...	...	...	...	...	..	...	...	...	1	1	...	...	5·4	17·4
9	Amman Koil ...	1	1	4	2	1	1	2	...	2	...	1	...	...	15	15	...	...	18.7	12·8
10	Seven Wells ...	2	2	5	1	2	2	1	...	...	...	..	...	...	15	15	...	...	18·7	12·0
11	Sowcarpet ...	...	1	...	...	1	...	...	...	...	..	...	...	...	2	2	...	...	10·8	28·2
12	Peddunaickenpet ...	1	...	2	1	1	2	1	...	3	...	...	...	...	11	11	...	...	11·9	12·2
13	Trevelyan Basin ...	...	...	1	...	1	...	...	...	...	...	2	...	...	4	4	...	...	6·5	14·6
14	Esplanade ...	...	...	...	...	2	...	...	...	...	...	...	...	...	2	2	...	...	17·7	9·6
15	Park Town ...	...	...	...	1	...	...	1	2	...	...	1	1	...	6	6	...	...	8·7	14·8
16	Perambur ...	...	2	6	3	2	1	1	3	1	1	1	...	...	21	21	...	...	10·9	11·9
17	Choolai ...	2	1	2	3	...	3	...	...	3	...	1	...	...	15	15	...	...	10·9	8·7
18	Purasawalkam ...	...	...	3	...	...	...	...	...	1	1	2	1	...	8	8	...	...	7·0	8·2
19	Vepery ...	1	2	...	1	...	...	...	...	...	1	2	...	...	7	7	...	...	8·5	8 3
20	Egmore ...	4	1	2	3	5	1	2	3	1	5	3	4	...	34	34	...	...	21·5	18·5
21	Kilpauk ...	1	...	...	1	...	...	...	...	3	...	1	...	...	6	6	...	...	6·3	8·4
22	Nungambakam ...	...	3	1	1	...	2	1	1	2	...	...	...	...	11	11	...	...	10·3	10·1
23	Chintadripet ...	2	...	2	1	2	...	...	...	...	...	2	1	...	10	10	...	...	7·9	10·9
24	Tiruvateeswaranpet ...	2	2	...	3	1	...	...	2	1	1	1	...	...	13	13	...	...	8·5	10·2
25	Chepauk ...	...	2	...	...	...	2	...	1	1	...	1	2	...	9	9	...	...	10·7	18·0
26	Triplicane ...	...	...	2	1	...	1	...	3	1	1	2	3	...	14	14	...	...	19·2	11·0
27	Amir Mahal ...	2	...	...	...	1	1	...	2	...	...	2	3	...	11	11	...	...	12·7	13·2
28	Mirsahibpet ...	2	...	1	1	2	1	...	...	...	1	2	1	...	11	11	...	...	7·7	9·2
29	Royapettah ...	3	...	1	...	...	...	...	1	1	...	1	...	...	7	7	...	...	4·9	7·1
30	Mylapore ...	1	1	1	2	...	1	1	...	1	...	...	...	...	8	8	...	...	10·6	10·6
	Total ...	32	31	38	31	28	25	16	22	23	15	31	21	...	313	313	...	...	11·1	0·5

Annual form No, XVIII.—Deaths registered from "OTHER CAUSES" by all divisions during each month of the year 1934.

1	2	3												4			5			6
Divisions.	Districts.	January.	February.	March.	April.	May.	June.	July.	August	September.	October.	November.	December.	Total.			Ratio of deaths per 1000 of population.			Mean Ratio per 1000 during previous five years.
														Males.	Females.	Total.	Males.	Females.	Total.	
1	Royapuram ...	28	41	22	39	24	32	28	23	39	30	32	35	205	168	373	18·7	15·3	17·0	17·7
2	Tondiarpet ...	51	47	22	48	30	46	44	42	56	29	37	59	274	237	511	20·8	18 6	19·7	20·8
3	Washermanpet ...	48	50	34	39	57	41	36	47	45	41	46	55	284	255	539	21·7	20·2	21·0	17·0
4	Korukkupet ...	42	32	35	32	38	42	58	39	50	44	37	50	265	234	499	20·0	18·9	19·5	16·1
5	Harbour ...	12	16	11	6	13	18	6	17	5	10	16	5	67	68	135	12·2	21·1	15·5	15·5
6	Muthialpet ...	12	16	8	11	17	12	11	15	11	13	14	19	80	79	159	9·5	13·4	11·2	10·3
7	Katchaleswarenpet ...	18	14	22	12	14	12	12	11	16	17	20	19	96	91	187	14·0	15·6	14·7	14·5
8	Kothawal Bazaar ...	8	7	5	4	8	7	11	9	4	6	11	5	39	46	85	9·7	18·1	13·0	14 2
9	Amman Koil ...	26	24	26	27	25	21	21	28	19	34	29	39	190	129	319	18·9	14 1	16·6	13·5
10	Seven Wells ...	39	38	49	31	30	33	31	24	23	26	44	35	150	156	306	14·4	15·9	15·1	16·1
														*71	*26	*97				
11	Sowcarpet ...	6	9	9	9	5	15	5	7	7	11	4	15	52	50	102	12·5	16·5	14·2	14·2
12	Peddunaickenpet ..	29	33	26	21	33	22	29	27	29	27	34	38	169	179	348	15·2	17·2	16·2	14·8
13	Trevelyan Basin ...	21	32	29	21	22	24	27	26	22	17	27	24	163	129	292	16.8	14·0	15·4	15·7
14	Esplanade ...	16	25	20	18	18	15	26	12	29	29	19	16	37	20	57	15·9	12.7	14·6	15·1
														*154	*32	*186				
15	Park Town ...	19	23	18	17	21	17	23	18	21	14	22	35	137	111	248	14·2	14·7	14.4	16·6
16	Perambur ...	62	58	45	30	41	41	49	75	61	66	60	88	353	323	676	15·2	15·6	15·4	13·2
17	Choolai ...	49	47	32	40	37	43	37	48	50	39	47	44	261	252	513	18·3	19·0	18·7	15·5
18	Purasawalkam ...	22	44	40	31	30	28	37	33	44	30	37	36	216	196	412	15·5	15·0	15·2	13.3
19	Vepery ...	27	13	22	29	27	24	24	40	18	36	25	29	174	140	314	14·1	14·3	14·2	15.2
20	Egmore	42	39	46	42	48	45	40	50	39	32	45	63	274	257	531	17.8	18·3	18·1	14.9
21	Kilpauk ...	41	36	42	34	34	30	42	48	29	33.	41	35	228	217	445	17·4	19·3	18·3	14·0
22	Nungambakam ...	45	37	35	21	23	31	31	32	24	25	29	48	196	185	381	13·5	14·5	14·0	11·9
23	Chintadripet ...	52	31	34	27	39	32	34	49	37	34	43	48	259	201	460	18·6	15·5	17·1	16.3
24	Tiruvateeswaranpet ...	66	52	49	47	56	42	62	72	49	46	64	57	339	323	662	20·9	21·3	21·1	20.2
25	Chepauk ...	23	13	25	26	20	19	29	22	20	19	25	19	132	123	255	14·1	16.0	14 9	15·1
26	Triplicane ...	31	12	25	24	32	18	15	24	17	23	30	27	142	136	278	13·8	14·8	14·2	15·1
27	Amir Mahal ...	48	32	50	25	33	35	36	41	23	57	38	42	230	230	460	22·7	24.3	23·5	20·3
28	Mirsahibpet ...	58	44	60	60	49	36	48	63	63	58	53	84	357	319	676	25·8	23·7	24 7	18·2
29	Royapettah ...	48	61	36	50	51	48	49	52	44	39	69	42	311	278	589	18.0	17·5	17·7	12·6
30	Mylapore ...	29	35	23	28	16	22	24	35	22	26	38	25	169	154	323	15·6	14·8	15.2	15·2
	Total ...	1017	961	900	853	891	851	925	1029	916	911	1036	1134	6074	5250	11424	17·8	17·5	17.7	15.9

* Includes deaths in the Government Royapuram and General Hospital of patients admitted from moffusil and destitutes.

Annual Form No. XIX.—Comparing the deaths from some of the principal diseases during the year with the deaths during the previous five years.

Years.	Cholera.		Small-Pox		Measles.		Plague.		Malaria.		Enteric Fever.		Other Fevers.		Dysentery and Diarrhoea.		Tuberculosis other than Pulmonary.		Tuberculosis Pulmonary.		Other Respiratory Diseases.		Injuries.		Deaths from Child-Birth.		All other Causes.		Total Deaths.	
	Deaths.	Raito per 1,000	Deaths.	Ratio Per 1,000	Deaths.	Ratio per 1,000	Deaths.	Ratio per 1,000	Deaths.	Ratio per 1,000	Deaths.	Ratio per 1,000	Deaths.	Ratio per 1,000	Deaths.	Ratio per 1,000	Deaths.	Ratio per 1,000	Deaths.	Ratio per 1,000	Deaths.	Ratio per 1,000	Deaths.	Ratio per 1,000	Deaths.	Ratio per 1,000	Deaths.	Ratio per 1,000	Deaths.	Ratio yer 1,000
1929	16	1·3	506	1·0	68	0·1	...	...	681	1·3	130	0·2	1731	3·0	3171	5·9	17	0·03	1354	2·6	5324	10·1	242	0·5	304	13.1	8915	16·9	22415	42·4
1930	43	0·03	188	0·4	16	0·03	...	...	283	0·5	126	0·2	1961	3·7	3056	5·8	151	0·3	924	1·7	5256	9·9	249	0·5	328	12·7	10258	19·4	22839	43·2
1931	153	0·08	24	0·04	3	0·006	...	...	277	0·4	166	0·3	1748	2·7	2746	4·2	177	0·3	843	1.3	5743	8·9	275	0.4	299	11·6	10708	16·5	23162	35·8
1932	5	0·008	176	0·3	16	0·02	1	0.002	165	0·3	101	0·2	1640	2·5	2644	4.1	170	0·3	747	1·2	5509	8·5	267	0·4	279	10·0	10564	16·3	22290	34·4
1933	62	0·1	837	1·3	44	0·07	...	...	140	0·2	90	0·1	2095	3·2	2670	4·1	156	0·2	855	1·3	5967	9·2	303	0·5	331	11·6	10950	16·9	24500	37·9
Mean of the last 5 years...	56	0·09	346	0·5	29	0·04	2	0·0003	309	0.5	123	0.2	1835	2·8	2849	4·4	134	0·2	945	1.5	5560	8.6	267	0·4	308	0·5	10279	15·9	23040	35·6
1934	166	0.3	131	0·2	7	0·01	...	...	193	0·3	145	0·2	2097	3·2	2008	3·1	151	0·2	971	1·5	5783	8·9	270	0.4	313	11·1	11424	17·7	23659	36·6

Annual Form No. XX—Table of Deaths for 1934 arranged in accordance with the International List (Fourth Revision 1929) as adopted for use in England and Wales Scotland and Northern Ireland.

	Classification No.	Causes of death.	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.	Total.
		I. INFECTIOUS AND PARASITIC DISEASES.													
Infectious and Parasitic Diseases.	1	Typhoid fever ...	6	11	9	10	9	12	11	12	13	13	20	19	145
	6	Small-pox ...	29	16	21	17	15	5	5	6	5	2	3	7	131
	7	Measles ...	1	4	1	...	1	...	...	...	...	...	...	...	7
	9	Whooping cough ...	2	4	3	4	5	3	8	6	5	8	6	11	65
	10	Diphtheria ...	1	3	...	1	...	...	1	1	2	...	1	1	11
	11	Influenza (including influenzal Pneumonia) ...	3	1	...	...	1	1	1	1	1	...	...	1	10
	12	Cholera ...	5	5	2	...	...	15	9	50	28	5	35	12	166
	13	Dysentery ...	87	111	106	89	105	73	108	123	86	95	91	136	1210
	15	Erysipelas ...	2	2	2	2	...	...	1	...	2	2	...	1	14
	17	Encephalitis lethargica ...	1	...	...	...	...	...	...	...	...	...	...	...	1
	18	Cerebro-spinal meningitis ...	1	...	...	...	...	...	...	...	...	...	...	...	1
	21	Rabies ...	1	3	...	...	1	...	...	1	...	2	3	...	11
	22	Tetanus ...	8	7	8	5	4	7	5	4	6	8	8	8	78
	23	Tuberculosis of the Respiratory System ...	69	85	80	82	73	70	74	95	73	96	77	97	971
		Tubercle of Larynx ...	...	...	...	...	1	...	...	...	...	...	...	1	2
	24	Tuberculous meningitis ...	1	...	1	1	...	...	...	1	...	1	...	...	5
	25	Tabes mesenterica ...	...	...	...	...	...	...	...	1	...	...	...	...	1
		Other Tuberculosis of intestine and peritoneum..	11	5	7	8	10	10	10	5	10	7	14	10	107
	26	Tuberculosis of vertebral Column ...	...	...	...	1	...	2	...	1	...	...	...	1	5
	27	Tuberculosis of other bones and joints ...	1	...	...	1	2	...	...	...	1	...	1	...	6
	29	Tuberculosis of lymphatic fystem ...	3	3	...	2	3	3	3	1	...	3	2	...	23
	30	Tuberculosis of kidney. ...	1	...	...	...	...	...	...	...	...	...	...	...	1
		Tuberculosis of bladder ...	...	...	...	...	1	...	...	...	...	...	...	...	1
	33	Leprosy ...	5	10	5	5	5	2	3	2	3	...	4	5	49
	34	Syphilis ...	...	2	...	2	...	1	2	3	1	...	...	...	11
	34-a	Congenital syphilis ...	...	1	1	1	...	1	2	1	1	3	1	2	14
	34-b	Cerebral syphilis ...	...	...	1	...	...	...	...	...	1	...	...	...	2
	34-b, c	Syphilis, acquired ...	...	...	1	1	...	...	...	...	...	...	1	...	3
	c	Gumma liver ...	...	...	...	...	...	1	...	...	...	...	...	...	1
	35	Gonorrhoea ...	4	2	...	...	...	...	2	...	...	...	...	...	8
	35 1	Gonorrhoeal ophthalmia ...	...	...	...	...	...	1	...	...	...	...	...	...	1

35–2	Gleet	...	...	...	...	...	1	...	...	...	...	...	...	...	1
	Gonorrhoeal arthritis	...	...	...	...	...	...	...	...	...	1	...	...	...	1
	Gonorrhoeal Salpingitis	...	...	...	...	...	...	...	...	...	1	...	1	...	2
	Other Venereal Diseases	...	...	1	...	2	1	...	...	...	...	...	...	2	6
36–a	Septicaemia	..	6	8	10	5	12	8	13	11	11	12	9	7	112
	Sapraemia	...	...	1	...	...	1	...	1	...	...	...	...	...	3
b	Pyaemia	...	2	...	...	1	2	1	1	1	...	4	...	1	13
c	Gas gangrene	...	1	...	...	...	...	...	...	...	1	1	...	...	3
38	Malaria	...	13	9	13	10	10	10	13	5	13	19	17	14	146
	Malarial cachexia	...	2	...	...	1	...	...	1	...	1	1	...	...	6
	Malignant tertian malaria	...	2	6	1	3	3	5	2	...	6	4	7	2	41
39	Kala-Azar	...	2	1	1	1	3	1	...	3	2	1	1	...	16
40	Ankylostomiasis	...	6	4	5	4	3	...	2	...	2	1	...	...	27
42	Filarial elephantiasis	...	...	...	...	1	1	...	1	...	...	...	...	2	5
	Filariasis	..	2	2	1	2	2	...	2	...	2	...	1	...	14
	Worms	...	...	...	1	...	...	1	...	2	1	...	5	1	11
43	Sprue	...	1	2	...	1	...	...	...	1	...	...	1	1	7
44–4	Chicken-pox	...	...	...	...	1	...	...	...	...	...	...	...	...	1
	II. CANCER AND OTHER TUMOURS.														
45	Cancer of the buccal cavity and pharynx	...	1	1	3	...	3	1	2	2	1	2	...	...	16
46	Cancer of the digestive organs and peritoneum	...	1	1	1	...	1	1	2	2	2	...	4	...	15
47	*Cancer of the respiratory organs* :—														
	Cancer of larynx	...	...	...	1	...	1	...	...	...	1	...	1	1	5
	Cancer of lungs	...	...	...	...	...	...	...	...	...	1	1	...	...	2
48	Cancer of the uterus	..	3	1	...	2	1	1	4	2	3	3	3	...	23
49	*Cancer of other female genital organs* :—														
	Cancer of the ovary	...	...	...	...	...	...	...	...	...	1	...	...	...	1
50	Cancer of the breast	...	2	...	1	1	1	1	3	2	3	1	2	...	17
	Cancer of the prostate	...	...	...	1	1	...	...	...	3	2	...	1	...	8
51	Cancer of the penis	...	...	...	...	...	1	...	...	...	...	...	...	...	1
53	Cancer of unspecified organs	...	...	1	3	3	4	1	4	3	2	2	2	...	25
	Sarcoma of bones	...	1	...	...	...	...	...	...	...	...	...	...	...	1
	„ of liver	...	...	...	...	1	...	...	...	...	...	...	...	...	1
54	*Non Malignant Tumours* :—														
	Tumour of larynx	...	...	...	...	...	...	...	...	1	...	...	...	...	1
	Tumour of bladder	...	...	...	...	...	...	...	...	...	...	...	...	1	1
a	Ovarian cyst	...	...	...	1	1	...	...	..	...	...	...	...	...	2
	Broad ligament tumour	...	...	...	...	...	...	...	...	...	...	...	...	1	1
	Other tumours of uterus	...	...	...	3	...	1	...	...	1	...	...	...	2	7
	Tumour of lungs	...	...	...	...	...	...	...	1	...	1	...	...	...	2
	Tumour pancreas	...	...	...	...	...	...	1	...	...	...	...	...	...	1
	Other non-malignant tumours	...	1	4	1	1	3	1	3	3	1	3	1	1	23
	Brain tuomurs	...	...	...	...	1	1	...	...	...	...	1	...	...	3

Cancer and other tumours.

	Classification No.	Causes of death.	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.	Total.
		III. RHEUMATISM, DISEASES OF NUTRITION AND OF ENDOCRINE GLANDS AND OTHER GENERAL DISEASES.													
General Diseases.	56	Rheumatic fever ...	1	...	...	1	1	1	...	...	...	2	4	2	12
	57–2	Chronic rheumatoid arthritis ...	...	...	...	2	1	1	...	...	...	...	...	...	4
	58	Hydramnios ...	1	...	...	...	...	...	...	...	...	...	...	...	1
	59	Diabetes ...	3	1	6	4	7	5	6	4	4	3	3	6	52
		Diabetic carbuncle ...	4	1	1	2	8	4	9	3	2	4	3	2	43
		do coma ...	...	1	2	1	2	2	1	2	1	2	...		14
		do gangrene ...	1	1	3	1	1	1	...	1	1	1	1	2	14
	61	Beri-beri ...	1	...	...	...	1	...	1	1	1	1	1	...	7
	63	Rickets ...	14	19	11	10	6	18	24	24	18	16	17	14	191
	66a	Simple Goitre ...	...	...	...	...	...	2	...	...	...	...	...	...	2
	66c	Myxoedema ...	...	...	...	...	...	...	...	...	...	1	...	...	1
	69–2	Auto-intoxication ...	...	...	...	...	...	1	...	...	...	...	...	...	1
		IV. DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS.													
Diseases of Blood.	71	Anaemia ...	17	25	14	16	14	17	12	18	16	9	22	19	199
		Chlorosis ...	...	1	...	...	1	...	2	1	3	1	...	...	9
	71a	Pernicious anaemia ...	4	2	3	3	4	3	4	4	1	2	3	1	34
	72a	Leukaemia ..	...	...	1	...	...	...	...	1	...	...	...	2	4
	b	Lymphadenoma (Hodgkin's Disease) ...	...	...	1	...	1	1	...	1	...	...	...	...	4
	73	Diseases of the spleen :—													
	73–1	Banti's disease ...	...	...	...	1	...	...	2	...	...	1	...	...	4
	73–2	Enlargement of spleen ...	6	4	4	5	4	2	3	2	4	1	1	3	39
	74	Other diseases of blood and blood-forming organs ...	...	...	...	...	1	...	...	...	...	...	...	...	1
		V. CHRONIC POISONING.													
Chronic Poisoning.	75	Alcoholism ...	1	...	...	...	...	1	...	1	2	...	...	...	5
		VI. DISEASES OF THE NERNOUS SYSTEM AND SENSE ORGANS													
	78–b	Encephalitis ...	...	...	...	...	1	1	1	...	...	...	...	1	4
	79	Meningitis ...	3	6	2	1	2	...	1	2	3	2	1	5	28

Diseases of the Nervous System and Sense Organs.	79	Cerebral meningitis	...	1	...	...	...	...	...	...	...	...	...	...	...	1
	80	Tabes dorsalis (Locomotor Ataxy)	...	...	...	...	...	1	...	...	1	...	...	...	...	2
	81-3	Transverse myelitis	...	...	...	...	1	1	...	1	...	...	...	...	...	3
	81-4	Landry's paralysis	...	1	...	...	...	...	...	...	...	...	...	...	...	1
	82-a	Cerebral haemorrhage	...	4	12	8	7	12	6	12	15	12	1	12	12	113
	82-a (1)	Intracranial „	...	2	2	1	...	...	...	...	2	...	...	1	1	9
	82-a (2)	Apoplexy	...	...	...	2	...	...	1	3	3	3	...	2	1	15
	82-b (1)	Cerebral embolism	...	...	1	...	...	...	...	1	...	...	...	...	1	3
	82-b (2)	„ thrombosis	...	...	...	...	...	1	...	...	...	1	...	1	...	3
	82-c (1)	Hemiplegia	...	37	28	22	17	21	29	20	35	27	20	27	31	314
	82-c (2)	Other paralysis of unstated origin	...	20	12	13	16	16	17	15	16	12	16	17	15	185
	83	General paralysis of the insane	...	1	1	...	1	...	...	1	1	1	...	...	...	6
	84-b	Mania	...	...	...	...	...	...	...	...	1	...	...	...	...	1
		Other forms of insanity														
	85	Epilepsy	...	2	4	4	1	...	...	...	...	...	...	...	...	11
		Status epilepticus	...	...	1	...	...	...	...	...	...	...	...	...	...	1
	86	Infantile convulsions (under 5 years of age)	...	57	47	53	28	64	38	39	44	60	51	45	43	569
	87-a	Neurasthenia	...	1	...	...	...	...	...	...	...	...	...	...	...	1
	87-b	Neuritis	...	1	2	...	1	2	...	2	2	...	2	2	...	14
		Trigeminal neuralgia	...	1	...	...	...	...	...	...	...	...	...	...	...	1
	87-d	Disseminated sclerosis	...	...	...	1	...	...	...	...	...	...	...	...	...	1
	87-e	Cerebral Compression (not due to injury)	...	2	...	...	...	3	1	1	...	1	1	1	2	12
		Hysteria	...	...	...	...	...	...	1	...	...	...	...	...	...	1
		Aphasia	...	...	...	...	...	...	...	1	...	...	...	...	...	1
	88	Diseases of the eye and annexa	...	...	1	1	...	...	1	1	1	1	...	...	1	7
	89	Diseases of the ear and mastoid sinus	...	...	1	...	2	...	1	...	2	1	1	...	...	8
		VII DISEASES OF THE CIRCULATORY SYSTEM.														
Diseases of the Circulatory System.	90	Pericarditis	...	6	1	3	2	2	2	...	2	1	1	3	3	26
	92	Chronic endocarditis, valvular disease	...	25	17	20	22	25	21	20	17	20	22	19	23	251
	92-4	Endocarditis, not returned as acute or chronic	...	1	2	2	2	4	2	3	2	2	2	1	2	25
	93-c	Myocarditis, not distingiushed as acute or chronic.		17	13	14	9	11	4	10	12	12	11	11	18	142
	94	Angina pectoris		...	...	1	1	1	1	2	2	...	1	3	2	14
		Coronary thrombosis		...	...	...	...	...	...	...	1	...	...		1	2
	95-b (2)	Other diseases of heart (undefined)		62	58	49	47	47	29	72	81	27	52	62	79	665
		Cardiac asthma		...	1	...	...	...	...	...	...	1	1	...	...	3
		Cardiac dropsy		...	...	1	1	2	2	...	3	1	...	...	1	11
	96	Aneurysm		...	...	3	...	...	...	...	...	...	...	...	2	5
	97	Arterio-sclerosis		1	...	2	...	...	...	...	...	...	...	...	...	3
	98	Gangrene		2	1	...	...	...	...	...	...	1	...	2	...	6
	98-b	Cancrum oris		3	4	1	1	...	2	3	1	...	...	...	1	16
	99	Aortitis		...	...	...	...	...	...	...	...	...	...	1	...	1
	99	Other diseases of the arteries		...	...	...	...	1	...	...	...	...	...	1	...	2

Annual Form No. XX—Table of Deaths for 1934 arranged in accordance with the International List (Fourth Revision 1929) as adopted for use in England and Wales, Scotland and Northern Ireland.—*Contd.*

	Classification No.	Causes of death.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
	100–1	Haemorrhoids ...	2	2	4	...	3	1	1	2	...	1	3	1	24
	100–2	Thrombo phlebitis ...	...	...	...	...	...	...	...	...	...	...	...	1	1
	100–2	Phlegmasia alba dolens ...	...	...	...	4	...	1	...	...	...	...	...	...	1
	101	Diseases of the lymphatic System ...	4	6	...	5	7	...	2	6	...	7	8	2	47
	102	Hyperpiesis ...	1	1	...	1	2	...	1	2	...	...	1	...	9
	103	Internal haemorrhage ...	...	...	...	...	1	1	...	...	1	...	...	1	4
		Other diseases of the circulatory system ...	9	1	6	3	4	7	9	5	6	...	4	5	59
		VIII. DISEASES OF THE RESPIRATORY SYSTEM. ...	...	...	...	...	...	...	...	...	...	...	...	...	...
	105–1	Laryngismus Stridulus ...	...	...	...	...	...	...	...	...	...	...	1	...	1
	105–2	Oedema larynx ...	...	...	1	...	...	...	1	...	1	...	...	...	3
	106–a	Acute bronchitis ...	1	4	2	3	3	1	3	3	3	1	6	7	37
	106–b	Chronic ,, ...	36	33	22	24	23	15	23	25	20	24	28	29	302
	106–c	Bronchitis, not distinguished as acute or chronic .	13	12	13	28	20	14	19	21	20	18	21	21	220
	107	Broncho-pneumonia ...	315	291	269	216	309	293	275	303	318	256	336	271	3451
	108	Lobar pneumonia ...	14	17	19	15	18	11	12	12	16	18	22	31	205
	109	Pneumonia, not otherwise defined ...	130	112	108	84	102	89	95	106	91	83	100	95	1195
	110–1	Empyema ...	1	1	2	3	1	2	4	...	...	1	1	1	17
	110–2	Other pleurisy ...	9	2	3	5	8	1	4	4	5	7	5	5	58
		Pneumothorax ...	...	...	...	1	...	...	...	1	...	...	..	...	2
	111–1	Hypostatic congestion of the lung and oedema of lung ...	1	...	...	...	1	...	...	...	2	...	2	...	9
	111–2	Pulmonary embolism ...	...	...	...	...	2	2	...	1	...	...	...	...	2
	112	Asthma ...	19	18	13	21	12	14	12	7	12	18	15	19	180
	113	Pulmonary emphysema ...	1	...	...	1	1	1	1	...	...	...	2	1	8
	114–b1	Gangrene of the lung ...	1	...	1	...	...	...	1	...	...	1	...	...	4
	114–b2	Abscess of the lung ...	1	...	1	...	...	...	...	...	...	1	...	1	4
		Other diseass of the respiratory system ...	...	...	10	3	2	...	1	...	...	...	...	4	20
		IX. DISEASES OF THE DIGESTIVE ORGANS.													
	115–1	Diseases of teeth and gums ...	1	...	1	...	...	...	1	...	...	...	...	...	3
	115–2	Ludwig's angina ...	...	...	...	...	...	...	...	1	...	...	...	...	1
	115–3	Diseases of the tonsils ...	1	...	...	2	...	...	1	...	...	...	1	1	6
	115–4	Parotid abscess ...	...	...	...	...	...	...	...	...	...	...	1	...	1

Diseases of the Respiratory System.

115–4	Pharyngitis	...	...	...	...	...	...	...	...	...	...	...	...	1	1
	Retropharyngeal abscess	...	...	...	1	...	...	...	...	...	...	...	...		1
115	Stricture of the oesophagus	...	...	...	1	..	...	...	...	...	...	...	...		1
117 (a)	Ulcer of the stomach	...	4	10	9	3	5	12	4	7	4	4	9	5	76
117 (b)	Ulcer of the duodenum	...	2	6	6	4	5	3	7	2	5	3	4	5	52
118–1	Gastritis	...	16	3	9	7	3	11	15	8	7	6	14	16	115
118–2	Pyloric obstruction	...	...	1	...	...	...	...	1	...	...	...	1	...	3
	Pyloric stenosis	...	..	...	...	...	...	...	...	...	...	1	...	...	1
	Haematemesis	...	1	2	...	3	1	...	1	...	...	...	1	...	9
119	Dyspepsia	...	2	...	2	3	3	4	5	8	3	4	1	4	39
119 & 120	Diarrhoea and enteritis	...	58	66	65	50	87	97	70	69	56	59	52	69	798
119a–1&120	Colitis	...	7	3	2	4	1	...	6	1	3	5	2	6	40
	Green stools (or diarrhoea)	...	2	1	...	3	...	1	1	5	2	3	...	1	19
a–2	Infantile diarrhoea	...	34	25	20	39	31	39	42	25	16	18	22	28	339
	Intestinal toxaemia	...	...	4	2	..	3	...	...	...	1	...	...	1	11
121	Appendicitis	...	1	1	3	2	3	2	...	2	...	1	2	7	24
	Appendicular abscess	...	...	1	2	...	...	...	...	...	...	...	...		3
122	Hernia	...	...	..	...	2	...	...	3	2	1	...	...	1	13
122–a(1)	Strangulated hernia	...	2	4	6	2	5	...	3	5	3	1	7	3	41
122–b	Intestinal obstruction	...	5	7	7	4	7	2	5	6	5	3	6	5	62
	Intussusception	...	...	1	...	...	...	...	1	...	...	...	1	...	3
	Volvulus	...	...	1	2	...	...	...	...	1	1	...	...	...	5
	Faecal fistula	...	...	...	...	...	...	...	...	...	...	1	...	...	1
123–1	Constipation	...	...	1	...	...	1	1	...	...	...	...	...	1	4
123–3	Gangrene of intestine	...	...	...	1	...	...	...	...	...	...	...	...	...	1
	Perforation of intestine	...	...	3	4	...	...	2	...	1	2	3	...	...	15
	Prolapse rectum	...	...	...	...	...	...	...	1	...	...	...	...	...	1
	Ischiorectal abscess	...	...	...	...	...	...	...	1	1	1	...	...	...	3
	Fistula in ano	...	...	1	..	...	...	...	...	...	1	...	1	...	3
124–b	Biliary cirrhosis	...	5	6	3	10	7	2	5	3	2	6	6	8	63
	Cirrhosis of liver	...	20	15	24	32	27	21	16	14	14	12	20	16	231
125–2	Atrophy of liver	...	...	...	...	...	2	1	...	...	...	...	...	...	3
	Cholaemia	...	...	...	1	...	...	...	...	...	...	...	...	1	2
	Jaundice	...	3	1	...	...	1	...	...	1	...	1	1	1	9
	Enlagement of liver	...	10	9	14	22	14	13	12	8	9	7	9	8	135
	Hepatitis	...	6	4	2	2	3	4	4	4	4	3	3	...	39
	Abscess liver	...	...	...	...	3	1	...	1	...	1	...	1	...	7
126	Biliary Calculi- (gallstones)	...	...	...	...	...	...	...	1	...	...	...	...	...	1
127–1	Cholecystitis	...	...	...	...	1	...	...	...	...	...	...	...	...	1
127–2	Catarrhal jaundice	...	4	5	1	7	6	4	6	7	8	2	4	4	58
128	Acute Pancreatitis	...	...	...	...	...	...	...	...	1	...	...		..	1
129	Peritonitis	..	4	4	5	3	7	2	8	...	3	4	3	7	50
	Subphrenic abscess	...		...		...	...	...	...	...	...	...	1		1

Annual Form No. XX—Table of Deaths for 1934 arranged in accordance with the International List (Fourth Revision 1929) as adopted for use in England and Wales, Scotland and Northern Ireland.—*Contd.*

	Classification No.	Causes of death.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
		X. NON-VENEREAL DISEASES OF THE GENITO-URINARY SYSTEM AND ANNEXA.													
Diseases of the Genito Urinary System.	130	Acute nephritis ...	20	13	12	13	13	10	13	17	17	20	16	27	191
		Acnte Bright's disease ...	3	5	3	1	1	2	4	10	4	4	4	7	48
	131	Chronic nephritis ...	19	12	18	14	15	11	15	13	22	10	22	23	194
		Chronic bright's disease ...	4	5	4	1	2	3	6	4	1	3	3	...	36
	132	Renal dropsy ...	8	4	5	2	4	2	6	10	6	5	5	7	64
		Uraemia ...	3	6	3	4	5	2	2	1	7	2	3	1	39
	133a	Pyelitis ...	...	...	...	...	...	...	1	...	...	...	...	...	1
		Pyelo nephritis ...	...	...	...	...	...	...	...	1	..	...	...	...	1
	133b	Suppression of Urine ...	...	...	...	2	...	...	...	1	...	...	1	1	5
		Haematuria ..	...	...	...	...	...	...	...	...	1	...	...	...	1
	134a	Renal Calculus ...	...	...	...	...	...	...	...	1	...	...	...	...	1
	134b	Calculi of the bladder ...	...	...	...	...	...	...	...	...	...	...	...	2	2
	135a	Cystitis ...	2	1	4	...	2	1	...	3	...	4	3	2	22
	b	Incontinence of urine ...	...	...	...	...	...	...	...	...	1	...	...	...	1
	136a	Stricture of urethra ...	...	...	...	...	1	...	1	...	...	...	1	...	3
	b	Urinary fistula ...	1	...	1	...	...	2	...	...	...	...	...	1	5
	c	Extravasation of urine ...	1	...	...	1	1	...	...	1	2	2	...	...	8
	137	Enlarged prostate ...	...	...	...	...	1	...	...	...	...	...	...	...	1
	138	*Diseases of male genital Organs*:—													
		Abscess of scrotum ...	1	...	1	1	...	1	2	...	...	...	1	...	7
		Cellulitis of scrotum ...	...	...	...	...	...	...	...	1	...	1		...	2
		Hydrocele ...	...	2	...	...	...	1	...	...	...	...	1	...	4
		Haematocele ...	...	...	...	...	...	...	...	1	...	...	...	...	1
		Orchitis ...	...	...	...	...	1	...	...	1	...	...	...	...	2
	139a–2	Salpingitis ...	...	...	2	...	1	1	...	1	...	...	...	1	6
	139a–3	Pelvic cellulitis ...	...	...	...	...	...	...	...	...	...	...	1	...	1
	139–b	Dysmenorrhoea and Endometritis ...	...	2	...	...	2	...	1	...	...	...	...	...	5
	139–d	Menorrhagia ...	...	...	...	...	...	...	1	...	1	...	...	...	2
	139–d	Infective Granuloma ...	...	...	...	...	...	...	...	...	1	...	...	...	1

		I. DISEASES OF PREGNANCY CHILD BIRTH AND PUERPERAL STATE.														
Puerperal State.	140	Septic Abortion	...	...	...	1	...	...	1	...	...	1	...	1	...	4
	141–2	Abortion	..	2	...	1	...	...	2	2	2	2	...	...	...	11
		Miscarriage (unqualified)	...	...	1	...	...	...	...	...	...	...	...	...	...	1
	142	Tubal abortion	...	...	...	1	...	...	...	...	...	...	...	...	...	1
		Tubal gestation	...	1	...	...	...	...	...	...	...	...	...	...	1	2
	143	Vesicular mole	...	...	...	...	...	...	...	...	...	1	...	...	...	1
	144	*Puerperal haemorrhage:—*														
	a	Placenta Praevia	...	2	1	...	...	1	1	...	2	1	...	...	1	9
		Ante-partum or accidental haemorrhage	...	2	...	2	2	2	1	3	1	...	2	2	...	17
		Puerperal anaemia	...	3	5	2	2	1	1	2	2	1	...	2	1	22
		Retention of placenta	...	...	...	...	...	...	...	...	...	2	...	...	...	2
	144–b	Post-Partum Haemorrhage	...	1	1	3	2	2	3	...	3	2	1	1	3	22
	145	Puerperal sepsis	...	13	16	14	16	18	11	7	10	10	5	18	11	149
	146–1	Eclampsia	...	3	2	2	1	4	2	2	2	1	1	1	2	23
	146–2	Albuminuria of pregnancy	...	...	...	2	...	...	1	1	...	2	1	...	1	8
	147	Anaemia of pregnancy	...	...	...	1	1	...	...	...	...	...	...	1	...	3
		Hyperemesis gravidarum	...	...	...	...	1	...	...	...	...	...	...	...	...	1
		Other toxaemia of pregnancy	...	1	2	2	...	2	...	1	2	1	1	1	1	14
	148–b	Sudden death after delivery	...	...	1	...	...	...	...	...	...	...	...	...	...	1
	149	*Other Accidents of child birth :—*														
		Caesarean section	...	...	...	1	...	...	...	...	...	...	1	...	1	3
		Difficult labour	...	...	1	...	1	3	1	1	...	...	...	...	...	7
		Prolonged labour	...	...	1	1	2	1	...	1	...	1	2	3	...	12
		XII. DISEASES OF THE SKIN AND CELLULAR TISSUES.														
Diseases of the Skin.	151	Carbuncle	...	2	...	1	...	1	4	7	2	8	4	1	1	31
	152–1	Cellulitis	...	2	1	1	2	...	4	6	4	...	1	3	4	28
	2	Acute abscess and ulcer (undefined)	...	9	1	6	2	6	12	12	12	7	12	8	9	96
	153	Other diseases of the Skin including elephantiasis	...	2	...	...	...	...	2	2	...	1	...	1	1	9
		XIII. DISEASES OF BONES AND ORGANS OF LOCOMOTION.														
Diseases of the Bones & Joints.	154	Osteomyelitis	...	1	...	1	1	...	...	1	3		...	...	...	7
	156–a	Acute arthritis	...	1	1	1	1	1	...	2	4	1	1	...	1	14
		XIV. CONGENITAL MALFORMATION.														
Congenital Malformation.	157-a	Congenital Hydrocephalus (unqualified below 6 months)	...	...	...	...	...	1	1	...	...	...	...	...	...	2
	c	Congenital heart disease	...	...	...	...	...	1	...	1	...	...	...	...	...	2
	d	Anencephalic monster	...	...	...	...	...	...	1	...	...	1	...	...	...	2
	e2	Hare-lip	...	...	...	...	1	...	...	...	...	...	...	...	1	2
	e3	Imperforate anus	...	...	1	2	...	...	1	1	1	...	1	...	1	8
	e4	Congenital cystic hygroma	...	...	...	...	...	...	1	...	...	...	...	...	...	1

	Classification No.	Causes of death.	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.	Total.
	157e-4	Hirschprung's disease ...	...	...	...	...	...	1	...	...	...	...	...	...	1
		XV. DISEASES OF EARTY INFANCY													
	158	Congenital debility ...	3	5	4	3	2	4	3	2	4	3	4	3	40
		Inanition ...	8	7	11	11	6	3	8	11	11	9	10	9	110
		Malnutrition ...	7	7	2	10	9	11	4	7	15	8	6	2	88
		Marasmus ...	42	37	28	38	32	35	34	29	32	27	28	44	406
	159	Premature birth ...	2-6	184	189	168	155	145	142	150	136	132	150	149	1926
	160	Prolapse of umbilical Cord ...	...	...	...	...	...	1	...	...	...	...	...	...	1
		Other injuries at Birth ...	...	2	2	...	1	...	...	1	1	...	...	...	7
	161a	Atelectasis ...	15	17	13	12	16	14	10	10	12	13	12	15	159
		Asphyxia neonatorum ...	5	11	8	4	12	3	13	9	14	7	3	3	92
		White asphyxia ...	...	...	...	...	...	...	...	...	...	...	...	1	1
	161c-1	Septic cord ...	...	...	...	...	1	...	...	2	...	...	1	1	5
	161c-2	Haemorrhage of the new Born ...	...	...	1	2	1	1	...	1	1	1	3	...	11
	161c-3	Antenatal toxaemia ...	...	1	...	...	...	...	2	...	...	3	...	3	9
	161c-4	Foetal ascitis ...	...	...	...	...	...	...	1	...	...	...	...	...	1
Diseases of early infancy.		Cyanosis (Unqualified) ...	2	4	1	2	5	2	...	1	2	3	4	5	31
		XVI. OLD AGE.													
Old age		Old age ...	65	125	75	96	170	142	82	177	172	231	129	283	1747
		XVII. DEATHS FROM VISLENCE.													
	163	Suicide by solid or liquid poisons and corrosive Substances ...	1	...	1	...	...	...	...	...	...	...	2	...	4
	165	Suicide by hanging ...	3	4	1	4	1	2	...	2	2	2	2	...	23
	166	Suicide by drowning ...	1	2	2	2	3	...	1	1	1	1	1	2	17
	168	Sucide by cutting or piercing instruments ...	2	1	1	...	1	...	...	1	2	1	...	...	9
	171	Suicide by other means ...	1	...	...	...	...	...	...	1	...	...	1	1	4
	175	Homicide by other means ...	...	...	...	...	...	...	...	1	...	...	...	...	1
	176	Attach by venomous animals Sting of Scorpion ...	...	...	...	...	...	2	...	...	...	...	...	...	2
	177	Food poisoning ...	...	...	...	...	1	...	...	...	...	...	...	...	1
	178	Accidental absorption of ir-respirable or poisonous gas ...	...	...	...	...	...	...	...	...	1	...	...	2	3
	179	Opium poisoning ...	...	...	...	...	...	...	1	...	...	...	...	...	1

Deaths from Violence.	179	Other acute accidental poisoning	...	...	...	...	...	...	...	...	1	...	...	...	...	1
	181	Accidental burns	...	2	8	10	1	7	4	1	1	1	14	3	4	56
	182	Accidental mechanical suffocation	...	...	...	...	...	...	...	1	...	...	...	...	1	2
	183	Accidental drowning	...	4	8	1	2	2	5	2	3	2	3	6	4	42
		Motor accident	...	2	8	7	1	10	3	1	1	1	14	2	7	57
	186	Other accidental injury by fall crushing etc.	...	...	1	...	...	...	...	...	...	2	1	...	...	4
	189	Starvation (not malnutrition)	...	...	2	...	...	...	...	...	...	...	1	...	...	3
	191	Sun-Stroke	...	...	...	...	...	...	1	1	...	...	...	...	...	2
	193	Electric Shock	...	...	...	...	...	...	2	...	...	...	...	...	...	2
	194–2	Accidental fracture of spine	...	...	...	...	...	...	...	2	...	...	...	...	...	2
		do cranial fracture	...	1	...	1	...	...	4	...	...	2	...	...	...	8
	195	Accidental fracture of other bones	...	2	1	4	1	2	1	1	3	...	1	5	2	23
		Other unstated forms of accidental violence	...	2	...	...	...	...	...	...	..	1	...	...	...	3
		XVIII. ILL-DEFINED DISEASES.														
Ill-Defined diseases.	199	Sudden death	...	...	1	...	...	...	...	...	...	...	...	...	...	1
	200–1	Heart failure	...	64	43	48	36	29	30	33	38	28	27	40	38	454
	200–2	Ascitis	...	4	2	3	4	8	5	5	7	3	2	6	2	51
		Anasarca	...	3	1	6	2	4	3	5	4	3	2	6	8	47
		Coma	...	...	...	1	...	...	1	...	...	...	...	...	1	3
		Dropsy	...	3	3	1	2	...	1	2	4	2	2	1	4	25
		Acute abdomen	...	1	1	6	...	2	2	3	2	1	2	7	2	29
		Debility age 10–50 years	...	...	1	3	1	2	1	1	1	2	2	1	2	17
		Inanition age 10 years and over	...	1	1	3	...	...	...	1	...	...	2	...	...	8
		Pyrexia of uncertain origin	...	170	194	150	128	152	157	180	188	189	190	191	182	2071
	200–3	Post-operative shock	...	1	1	2	...	3	1	1	2	1	...	2	...	14
		Unknown	...	...	4	2	4	4	3	4	3	6	5	4	8	47

TABLE A.

Comparative Statement of Deaths from some of the principal Diseases during the past 12 years.

Year.	Births:		Deaths.		Cholera.		Small-Pox.		Malaria.		Other Fevers.		Other Infectious diseases.		Plague.		Dysentery and Diarrhoea.		Respiratory Diseases.		Infantile mortality under 1 year.		Children between 1 and 5 years.		Still Births.
	No. of Births Registered exclusive of Still Births.	Birth-rate.	No. of Deaths registered exclusive of Still Births.	Death-rate.	Deaths.	Death-rate.	Deaths.	Death-rate	Deaths.	Death-rate	Deaths.	Death-rate	Deaths.	Death-raet	Deaths	Death-rate	Deaths.	Death-rate	Deaths.	Death-rate	Deaths.	Death-rate	Deaths.	Death-rate	Deaths.
1923	22,975	43.6	19,933	37.9	21	0.04	151	0·3	783	1·5	769	1·5	363	0·7		0·002	3778	7·2	4610	8·7	5837	254·0	3272	79·9	1312
1924	23,275	44·2	21,960	41.7	97	0·4	197	0·4	971	1·8	681	1·3	982	1·9	...	...	3700	7·0	5598	1·6	6148	264·1	3810	93·0	1274
1925	23,070	43·6	25,000	47.3	203	0·4	763	1·4	198	2·5	1339	2·0	682	1·3	...	...	4631	7·6	6416	12·1	6431	278·8	4656	112·9	1335
1926	22,000	41·6	23,776	45·0	98	0·2	60	0·1	1342	2·6	1343	2·7	565	1·1	...	...	3867	7·3	6470	12·2	6145	279·3	4120	100.0	1105
1927	24,760	46·8	22,364	42·3	512	1·0	32	0·06	1367	2·6	1259	2·1	...	...	...	...	3263	6·2	6816	12·9	5888	237·6	3806	92·3	1258
1928	23,729	44·9	26,715	50·5	708	1·3	251	0·5	1599	3·0	1732	3·2	1052	2·0	...	...	3931	7·4	8691	16·4	6806	286·8	4864	118·0	1321
1929	13,124	43·7	22,415	42·4	16	0·03	506	1·0	681	1·3	1861	3·5	612	1·2	...	...	3127	5·9	6695	12·7	5933	256·6	3875	94·0	1287
1930	25,662	48·5	22,839	43·2	43	0·08	188	0·4	283	0·5	2097	3·9	411	0·8	...	...	3056	5·8	6331	12·0	6258	243·9	3633	88·1	1260
1931	25,738	39·8	23,162	35·8	153	0·2	24	0.04	277	0·4	1914	3·0	1347	2·1	...	...	2746	4·2	5743	8·9	6391	248·3	3767	50.3	1318
1932	26,996	43·3	22,290	34·4	5	0·08	176	0·3	165	0·3	1747	2·7	1403	2·2	1	0·002	2644	4·1	5509	8·5	6622	236·5	3609	48·2	1326
1933	28,533	44.1	24,500	37.9	62	0·1	137	1·3	140	0·2	2185	3·3	519	0·8	...	...	2670	4·1	5967	9·2	7540	264·4	4154	67·7	1380
1934	28,149	43·5	23,659	36·6	166	0·3	131	0.2	193	0·3	2242	3·4	1163	1·8	...	...	2008	3·1	6905	10·6	6424	228·2	3893	63·4	1378

TABLE B.

Rainfall.

Years.	1st Quarter. January to March.	2nd Quarter. April to June.	3rd Quarter. July to September.	4th Quarter. October to December.	Total.
	1nches.	Inches.	Inches.	Inches.	Inches.
1929	8·29	2·77	13·72	27·64	52·42
1930	3·69	11·24	8·71	55·05	78·69
1931	0·05	6·76	17·94	33·78	58·53
1932	0·69	2·31	7·28	36·31	46·59
1933	3·42	0·98	5·20	30·58	40·18
1934	2·05	2·54	11·20	20·87	36·66

TABLE C.

Table of Births, Deaths and Infantile Death-rates for different communities in the City of Madras for 1933 and 1934.

Race or Caste.	Population according to the census of 1931	1934.						1933.					
		Total No. of Births.	Birth Rate.	Total No. of Deaths.	Death Rate.	Infantile Deaths.	Infantile Death rate.	Total No. of Births.	Birth rate.	Total No. of Deaths.	Death rate.	Infantile Deaths.	Infantile Death rate.
Europeans ...	3,581	50	14·0	22	6·1	2	40·0	27	7·5	40	11·2	2	74·1
Anglo-Indians ...	10,657	376	35·3	221	20·7	39	103·7	391	36·7	230	21·6	47	120·2
Indian Christians...	39,884	1,412	35·4	1,042	26·1	206	145·9	1,470	36·9	1,067	26·8	222	151·0
Hindus ...	520,176	23,113	44·4	19,569	37·6	5,431	235·0	23,419	45·0	20,066	38·6	6,412	273·8
Mahomedans ...	70,031	3,192	45·6	2,804	40·0	746	233·8	3,223	46·0	3,096	44·2	857	265·9
Others ...	2,901	6	2·1	1	0·3	...	...	3	1·0	1	0·34	...	...
Total ...	647,230	28,149	43·5	23,659	36·6	6,424	228·2	28,533	44·1	24,500	37·9	7,540	264·3

TABLE D.

Table of Birth and Death rates of principal sub-divisions of Hindu Community for 1933 and 1934.

Name of Community.	Population.	1934				1933			
		Total Births.	Birth Rate.	Total Deaths.	Death Rate.	Total Births.	Birth Rate.	Total Deaths.	Death Rate.
Brahmins ...	58,761	2,262	38·5	1,419	24·1	1,726	29·4	1,300	22·1
Chetties ...	37,949	1,766	46·5	1,567	41·3	1,655	43·6	1,602	42·2
Vellalah or Mudaliars ...	86,716	3,304	38·1	2,477	28·6	4,273	49·3	3,810	43·9
Balijah or Naidus ...	60,263	2,107	35·0	1,965	32·6	1,973	32·7	1,904	31·6
Vanniah or Naicker ...	69,650	3,406	48·9	3,190	45·8	3,464	49·7	3,055	43·9
Adi-Dravidas ...	73,701	3,134	42·5	3,357	45·5	2,966	40·2	3,051	41·4
Patnavars ...	11,309	348	30·8	430	38·0	446	39·4	489	43·2
Yadaval or Idayars ...	17,022	965	56·7	833	48·9	800	47·0	721	42·4
Viswakarma Brahmin or Kammalars ...	15,670	802	51·2	827	52·8	709	45·2	659	42·1

TABLE-E.

Table of Birth Death and Infantile Death rates by months for 1933 and 1934.

Months.	1934.						1933.					
	Total No. of Births.	Birth rate.	Total No. of Deaths.	Death rate.	Infantile Deaths.	Infantile Deaths on 1000 live Births.	Total No. of Births.	Birth rate.	Total No. of Deaths.	Death rate.	Infantile Deaths.	Infantile Death rate on 1000 live Births.
January ...	2,080	38·6	2,085	38.7	595	280·1	2,104	39·0	2,272	42·1	688	327·0
February ...	1,865	34·7	2,045	37·9	556	298·1	1,822	33·8	1,917	35·5	564	309·5
March ...	2,269	42·1	1,896	35·2	532	234·4	2,141	39·7	2,198	40·7	651	304·0
April ...	2,337	43·3	1,714	31·1	485	208·4	2,181	40·4	2,039	37·8	625	286·6
May ...	2,384	44·2	1,937	35·9	578	242·4	2,468	45·8	2,069	38·3	584	236·6
June ...	2,204	41·0	1,814	33·7	540	245·0	2,247	41·7	1,760	32·6	498	221·6
July ...	2,173	40·3	1,907	35·3	575	264·6	2,437	45·2	1,780	33·0	549	225·3
August ...	2,785	51·6	2,125	39·4	528	189·6	2,484	46.1	1,775	32·9	549	221·0
September ...	2,344	45·0	1,939	34·0	483	206·0	2,589	48·0	1,758	32·6	574	221·7
October ...	2,559	47·4	1,908	35·4	472	184·8	2,804	52·0	1,949	36·1	615	219·3
November ...	2,426	45·0	2,052	38·0	522	215·2	2,570	47·6	2,376	44·1	818	318·3
December ...	2,723	50·5	2,237	41·4	558	204·9	2,686	49·8	2,607	48·3	825	307.1
Total ...	28,149	43·5	23,659	36·6	6,424	228·2	28,533	44·1	24,500	37·9	7,540	264·3

TABLE F.

Ratio of deaths among Children under one year of age per 1000 live births registered in each division for 1933 and 1934.

Divisions.	1934.		1933.	
	Infantile Mortality.	Infantile Death-rates.	Infantile Mortality.	Infantile Death-rates.
1	224	262·6	275	292·9
2	293	220·1	416	303·4
3	355	280·6	397	312·4
4	314	261·2	347	313·2
5	84	265·0	113	327·5
6	83	182·0	103	209·8
7	130	231·7	137	261·0
8	53	288·0	53	302·9
9	170	212·2	210	253·6
10	197	245·6	233	292·7
11	41	220·4	61	302·0
12	213	231·3	302	306·9
13	179	266·8	201	271·6
14	27	236·8	32	283·2
15	159	231·8	166	250·4
16	450	233·6	491	244·5
17	360	261·0	347	252·0
18	249	218·0	314	272·8
19	188	229·3	221	232·4
20	333	210·0	321	198·6
21	181	190·7	166	185·5
22	213	199·1	235	231·3
23	278	220·8	338	261·6
24	312	204·9	394	246·9
25	158	187·0	179	210·1
26	162	221·9	193	265·5
27	202	233·2	273	314·5
28	350	244·8	439	343·2
29	319	223·5	349	234·5
30	147	172·3	234	275·0
Total ...	6,424	228·2	7,540	264·3

TABLE—G.

Table of Infantile Mortality by months in the year 1934.

1934	Small-pox.	Measles.	Malaria.	Other fevers.	Dysentery and Diarrhoea.	Premature Birth.	Debility.	Nervous system.	Respiratory System.	All other causes.	Total of 1934. Males.	Females.	Total.	Total of 1933
January	4	1	...	34	24	226	3	37	187	79	338	257	595	688
February	1	2	...	35	39	184	5	38	172	80	304	252	556	564
March	4	1	...	21	45	189	4	40	154	74	285	247	532	651
April	2	...	...	21	39	168	3	20	147	85	257	228	485	625
May	1	...	1	34	63	155	2	37	219	66	307	271	578	584
June	1	...	...	32	17	145	4	37	156	148	282	258	540	498
July	1	...	...	46	56	142	3	47	183	97	338	237	575	549
August	1	...	...	36	39	150	2	45	157	98	291	237	528	549
September	...	...	...	34	30	136	4	34	165	80	267	216	483	574
October	1	...	...	34	27	132	3	34	136	105	278	194	472	615
November	1	...	...	33	17	150	4	34	141	142	288	234	522	818
December	...	...	...	32	25	149	3	27	151	171	304	254	558	825
Total ...	17	4	1	392	421	1926	40	430	1968	1225	3539	2885	6424	7540

TABLE H.

Table of percentage of infantile deaths from principal causes in the year 1934.

Age periods..	Small-Pox.		Measles.		Malaria.		Cther Fevers.		Diarrhoea and Dysentery.		Premature Births.		Debility.		Nervous System.		Respiratory System.		All Other causes.		Total.	
	Total.	Rates.	Total.	Rates.	Total.	Rates.	Total.	Rates.	Total.	Rates.	Total.	Rates.	Total.	Rates.	Total.	Rates.	Total.	Rates.	Total.	Rates	Total.	Rates.
Under 7 days	...	...	...	...	...	...	6	0·41	9	0·61	1,111	75·68	3	0·20	55	3·75	36	2·45	248	16·89	1468	22·85
7 days & under 1 month	...	...	1	0·11	...	...	12	1·37	32	3·66	508	58·19	9	1·03	66	7·56	50	5·73	195	22·34	873	13·59
1 month & under 4 months	5	0·46	1	0·009	...	...	72	6·64	85	7·84	191	17·62	18	1·66	166	15·31	387	35·69	159	14·67	1084	16·87
4 „ „ 7 „	6	0·52	1	0·008	...	...	104	9·05	108	9·40	65	5.66	7	0·61	86	7·48	505	43·95	267	24·98	1149	17·89
7 „ „ 10 months	2	0·15	...	...	1	0·08	156	11·84	106	8·04	51	3·87	1	0·08	38	2·12	759	57·59	204	15·48	1318	20·52
10 „ „ 1 year	4	7·52	1	0·19	...	...	42	7·89	81	15·23	...	...	2	0·38	19	3·57	231	43·42	152	28·57	532	8·28
Total.	17	0·26	4	0·06	1	0·02	392	6·10	421	6·55	1926	29·98	40	0·62	430	6·69	1968	30·64	1225	19·07	6424	...

VACCINATION STATEMENT No. 1

Statement showing the number of births (Divisional and Hospital) verified during the calendar year 1934 and the number of vaccination of Infants under one year of age.

Divisions.	Total Births excluding still births.		Still Births.		Deaths under one year.		Number of Infants surviving.		Number of Infants vaccinated under one year.		Percentage of vaccination to births registered.	
	Divisional.	Hospital.	Divisional.	Hospital.	Divisional.	Hospital.	Divisional.	Hospital.	Divisional.	Hospital.	Divisional.	Hospital.
1	559	331	10	18	54	31	505	300	286	134	51·2	40·5
2	903	514	20	69	172	74	731	440	449	94	49·7	18·3
3	935	325	22	26	114	30	821	295	449	126	48·2	38·8
4	862	340	23	40	123	30	739	310	493	144	57·2	42·4
5	287	79	6	3	46	7	241	72	109	25	38·0	31·6
6	412	73	2	9	63	9	349	64	207	26	50·2	35·6
7	385	182	9	10	56	25	329	157	174	45	45·2	24·7
8	119	61	2	...	30	16	89	45	55	18	46·2	29·5
9	516	300	8	29	58	28	458	272	260	97	50·4	32·3
10	538	227	8	20	75	27	463	200	232	81	43·1	35·7
11	164	43	2	2	23	5	141	38	64	6	39·0	14·0
12	732	229	20	11	110	26	622	203	269	23	36·7	10·0
13	503	188	9	24	87	56	416	132	241	37	47·9	19·7
14	85	37	...	2	10	3	75	34	35	6	41·2	16·2
15	507	170	6	14	87	31	420	139	270	52	53·3	30·6
16	1,622	361	9	36	229	55	1393	306	1077	161	66·4	44·6
17	1,185	270	22	17	205	68	980	202	597	61	50·3	22·6
18	877	302	21	17	112	44	765	258	420	111	47·9	36·8
19	554	353	15	22	102	91	452	262	377	191	68·1	54·1
20	653	992	21	111	111	136	542	856	440	309	67·4	31·1
21	566	318	23	38	86	43	480	275	358	129	63·3	40·6
22	664	374	18	26	99	47	565	327	412	182	62·0	48·7
23	819	484	22	36	145	110	674	374	565	269	69·0	55·6
24	1009	363	14	19	77	31	932	332	545	89	54·0	24·5
25	455	359	6	46	77	61	378	298	220	79	48·4	32·0
26	522	253	12	17	81	51	441	202	242	64	46·4	25·3
27	601	259	4	16	73	35	528	224	376	57	62·5	22·0
28	992	476	26	47	175	81	817	395	447	93	45·1	19·5
29	1101	417	21	42	235	72	866	345	652	137	59·2	32·3
30	706	193	18	22	113	41	593	152	399	80	56·4	41·4
Total	19,833	8,873	399	789	3,028	1,364	16,805	7,509	10,720	2,926	54·1	32·9

VACCINATION STATEMENT No. 11.

Statement showing the number of births verified in 1934 and the number of infants vaccinated under one year of age.

Year.	Total number of Births excluding Still Births	Number of children in column 2 who died fefore attaining the age of one year without being vaccinated.	Number of children in column 2 who left the City before attaining the age of one year without being vaccinated	Number of children in column 2 who were available for vaccination (column 2 minus columns 3 & 4.)	Number of children in column 5 who were vaccinated before they attained the age of one year.	Percentage of column 6 to column 5.	Number of children in column 5 whose vaccination was postponed beyond one year of age for medical reasons.
1	2	3	4	5	6	7	8
1932 Divisional ...	18,622	3,042	3,080	12,500	9,873	79·0	1,260
1932 Hospital ...	7,676	993	1,825	4,858	2,580	53·1	218
1933 Divisional ...	20,226	3,663	3,427	13,136	10,775	82·0	893
1933 Hospital ...	8,253	1,310	1,836	5,107	2,841	55·6	422
1934 Divisional	19,833	3,028	3,042	13,763	10,720	77·9	835
1934 Hospital ...	8,873	1,364	2,343	5,166	2,926	55·6	281

Vaccination Statement No. III :—Showing particulars

Divisions.	Districts.	Population according to the census of 1931.	Number of depots.	Number of vaccinators.	Total No. of persons vaccinated.			Average No. of persons vaccinated by each vaccinator.	Primary.		
					Males.	Females.	Total.		Total		
									Males.	Females.	Total.
1	2	3	4	5	6	7	8	9	10	11	12
1	Royapuram ...	21,952			802	661	1,463		625	536	1,161
2	Tondiarpet ...	25,911			2,174	1,773	3,947		760	769	1,529
3	Washermanpet ...	25,663			1,117	1,083	2,200		621	638	1,259
4	Korukkupet ...	25,538			1,086	806	1,892		600	585	1,185
5	Harbour ...	8,704			681	185	866		175	145	320
6	Muthialpet ...	14,257			600	212	812		231	198	429
7	Katchaleswaranpet ...	12,707			445	331	786		252	239	491
8	Kothawal Bazaar ...	6,550			241	170	411		120	125	245
9	Ammen Kovil ...	19,202			493	513	1,006		435	451	886
10	Seven Wells ...	20,294			532	591	1,123		436	502	938
11	Sowcarpet ...	7,194			87	96	183		83	90	173
12	Peddunaickenpet ...	21,547			570	635	1,205		428	496	924
13	Trevelyan Basin ...	18,916			879	522	1,401		372	345	717
14	Esplanade ...	3,906			136	82	218		91	75	166
15	Park Town ...	17,183			754	434	1,188		360	310	670
16	Perambur ...	43,817			1,871	1,567	3,438		1,272	1,119	2,391
17	Choolai ...	27,488	16	54	1,887	1,069	2,256	890	758	679	1,437
18	Purasawalkam ...	27,054			1,239	891	2,130		650	557	1,207
19	Vepery ...	22,137			2,241	1,057	3,298		608	594	1,202
20	Egmore ...	29,385			1,633	940	2,573		582	545	1,127
21	Kilpauk ...	24,334			1,258	946	2,204		423	469	892
22	Nungambakkam ...	27,238			924	781	1,705		619	539	1,158
23	Chintadripet ...	26,845			930	700	1,630		614	623	1,237
24	Tiruvateeswarnpet ...	31,371			964	553	1,517		525	436	961
25	Chepauk ...	17,092			917	702	1,619		365	353	718
26	Triplicane ...	19,514			605	464	1,069		343	346	689
27	Amir Mahal ...	19,615			580	587	1,167		334	350	684
28	Mirsahibpet ...	27,343			672	711	1,383		536	556	1,092
29	Royapettah ...	33,203			1,197	1,186	2,383		781	857	1,638
30	Mylapore ...	21,270			519	446	965		369	338	707
...	Total ...	647,230			27,344	20,694	48,038		14,368	13,865	28,233

of Vaccinations during the Calendar year 1934.

Vaccination.					Re-Vaccinations.			Percentage of successful cases in which the results were known.		Persons successfully vaccinated per 1,000 of population.	Average annual No. of persons successfully vaccinated during the previous five years.		Average annual No. of deaths from Small-pox during the previous five years.		Average cost of each successful vaccination.
Successful.															
Under one year.	One year and under 6 years.	Six years and above.	Total.	Unknown.	Total.	Successful.	Unknown.	Primary.	Re-Vaccinations.		Number.	Ratio per 1,000 of population.	Number.	Ratio per 1000 of population.	
13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
688	455	18	1,161	...	302	118	65	100·0	49·8	58·3	1607	73·2	15	0·7	
1,015	499	15	1,529	...	2,418	392	1,051	100·0	28·7	74.1	1798	69·4	12	0·5	
845	398	2	1,245	5	941	88	322	99·3	14·2	51·9	1507	58·7	13	0·5	
725	459	...	1,184	1	707	48	377	100.0	14·5	48·2	1323	51·8	15	0·6	
208	108	3	319	...	546	9	427	99·7	7·6	37·7	548	63·0	9	1·0	
310	119	...	429	...	383	3	330	100·0	5·7	30·3	730	51·0	7	0·5	
389	100	...	489	...	295	24	108	99·6	12·8	40·4	844	66·4	11	0 9	
145	98	...	243	...	166	5	39	99·2	3·8	37·9	299	45·7	6	0·9	
557	329	...	886	...	120	13	...	100·0	10·8	46·8	1296	67·5	11	0·5	
681	251	...	932	...	185	9	...	99·4	4·9	46·4	1242	61·2	9	0·4	
110	63	...	173	...	10	...	...	100·0	...	24·0	275	38·2	3	0·4	
597	324	1	922	...	281	31	...	99·8	11·0	44·2	1311	60·8	13	0·6	
547	170	...	717	...	684	125	240	100·0	28·2	44·5	806	42·6	9	0·5	
110	51	5	166	...	52	6	15	100·0	16·2	44·0	221	56·6	3	0·7	
496	172	2	670	...	518	92	132	100.0	23·8	44·3	688	40·0	9	0·5	
1,597	788	...	2,385	...	1,047	89	97	99·7	9·4	56·5	3456	78·9	19	0·4	
1,158	270	9	1,437	...	819	197	85	100·0	26·8	59·4	2038	74·1	21	0·8	
950	226	31	1,207	...	923	196	109	100·0	24·1	51·9	1755	64·0	18	0·7	
1,159	43	...	1,202	...	2,096	239	...	100·0	11·4	65·1	1343	60·7	11	0·5	
942	181	4	1,127	...	1,446	144	101	100·0	10·7	43·3	1444	49·1	7	0·2	
793	99	...	892	...	1,312	303	...	100·0	23·1	49·1	1365	56·1	7	0·3	
907	250	...	1,157	...	547	127	88	99·9	27·7	47·1	2162	79·4	6	0·2	
1,062	174	...	1,236	...	393	50	39	99·9	14·1	47·9	1438	53·6	10	0·4	
845	109	5	959	...	556	87	12	99·8	16·0	33·3	1302	41·5	13	0·4	
495	142	9	646	61	901	114	214	98·3	16·6	44·5	716	41·9	6	0·4	
470	157	7	634	45	380	84	177	98·4	41·4	36·8	888	45·5	12	0·6	
554	118	5	677	3	483	54	6	99·4	11·3	37·3	852	43·4	7	0·4	
844	246	1	1,091	...	291	40	...	99·9	13·7	41·4	1219	44·6	31	1·1	
1,238	375	18	1,631	...	745	48	22	99·6	12·2	51·8	1774	53·4	15	0·5	
494	206	7	707	...	258	42	...	100·0	16·3	35·2	903	42·5	17	0·8	
20,931	6,980	142	28,053	115	19,805	2,817	4,056	99·8	17·9	47·7	37150	57·4	345	0·5	

Statement showing the areas in the city which have been sewered and are yet to be sewered.

Division.	Name of Area.	Length of sewers in feet laid during 1934.	Length of sewers in feet laid up to 31-12-1934	Percentage of sewered portion up to 31-12-1934	Percentage yet to be sewered.
1	Royapuram ...	...	40,972	85	15
2	Tondiarpet ...	443	32,422	71	29
3	Washermenpet ...	...	52,541	96	4
4	Korukkupet ...	1,006	23,407	67	33
5	Harbour ...	...	30,771	94	6
6	Muthialpet ...	490	24,594	95	5
7	Katchaleswaranpet ...	1,510	35,920	92	8
8	Kothawal Bazaar ...	...	23,345	100	...
9	Amman Coil ...	...	27,687	100	...
10	Seven Wells ...	...	28,766	100	...
11	Sowcarpet ...	...	18,379	100	...
12	Puddunaickenpet ...	1,822	32,646	99	1
13	Trevelyan Basin ...	...	32,171	97	3
14	Esplanade ...	...	10,417	90	10
15	Park Town ...	...	21,396	95	5
16	Perambur ...	896	30,075	56	44
17	Choolai ...	...	33,188	56	44
18	Purasawalkam ...	...	53,825	99	1
19	Vepery ...	...	38,165	80	20
20	Egmore ...	1,044	93,789	94	16
21	Kilpauk ...	...	31,079	53	47
22	Nungambakkam ...	10,534	44,496	35	65
23	Chintadripet ...	243	40,866	96	4
24	Tiruvatteeswaranpet ...	...	49,264	87	13
25	Chepauk ...	...	22,026	90	10
26	Triplicane ...	...	28,228	87	13
27	Amir Mahal ...	...	27,262	85	15
28	Mirsahibpet ...	3,342	90,637	92	8
29	Royapettah ...	12,605	65,890	60	40
30	Mylapore ...	3,263	84,489	83	17
	Total ...	37,198	11,68,713	84·47	15·53

List of unwholesome articles of food destroyed during 1934.

Aerated water drinks.	19 botttles.
Apples.	498 Nos.
Beef.	2,60lbs.
Biscuits.	60 Nos.
Butter milk.	6 measures.
Butter exposed.	3 lbs.
Boiled beans.	10 baskets.
Barley.	1 bag.
Bacon.	2 cases.
Brinjals.	19 visses.
Bread.	42 Nos.
Beet root.	65 „

Cucumber.	29 Nos.
Cabbage.	52 „
Cooked rice.	22 baskets.
Coffee.	50 kettles.
Curd.	4½ pots.
Condensed milk.	4070 tins, 160 bottles and 1 case
Chocolate.	50 tins, 187 boxes, 1853 tablets, 26 sticks and 250 pieces.
Cocoanuts.	243 Nos.
Custard apple.	265 „
Cauli flower.	12 „
Carrots.	89 „
Ducks.	11 „
Date palm	13½ seers.
Eggs.	1580 Nos.
Fowls dead.	16 „
Garlic.	1 basket.
Goats head.	22 Nos.
Grapes.	33 seers.
Goas.	1089 Nos.
Ground nut	12 baskets.
Jack fruits.	7 Nos.
Lemon fruits	390 „
Mangoes	7019 „
Mutton.	325 seers.
Melons.	348 Nos.
Milk (Columbia)	1322 tins.
Milk (Nestle's).	90 „
Nagapalam.	4 baskets.
Oranges.	5081 Nos.
Onions.	143 visses.
Pork.	55 lbs.
Pumpkins.	38 Nos.
Pomegranate.	6 „
Peas.	10 lbs & 10 tins.
Prawn	63½ bundles.
Peas.	3 tins.
Patent medicines.	14 cases.
Pineapples.	10 tins.
Potatoes.	97 visses.
Plantains.	7314.
Quails.	110 Nos.
Rotten fruits.	226 Nos.
Rice cakes.	3835.

Statement showing the number of applications relating to licenses disposed of during 1934.

Description.	No. of applications dealt with.	No. in which license was sanctioned.	No. in which license was refused.	No. pending disposal.
Aerated water factory ...	36	33	3	...
Bakery ...	91	87	4	...
Candles & soap ...	21	21	...	...
Cocoanut fibre, flax, hemp & jute ...	38	38	...	...
Cattle yards ...	2,365	1,909	6	450
Bones, hoofs, hair, rags, wool & horns ...	36	36	...	...
Dairy ...	144	143	1	...
Flour ...	138	130	8	...

Statement showing the number of applications relating to licenses disposed of during 1934—contd.

Description.	No. of applications dealt with	No. in which license was sanctioned.	No. in which license was refused.	No. pending disposal.
Building, electro plating and condiments ...	160	153	7	...
Hack stable ...	63	63	...	...
Dyeing yards ...	57	56	1	...
Onions & garlic ...	57	57	...	...
Oil mills & oil storing ...	484	475	9	...
Lodging house ...	81	79	2	...
Markets ...	42	42	...	...
Meat stalls ...	326	220	106	...
Spirits, turpentine & rosin ...	138	138	...	...
Sweet-meat bazaars & coffee hotels ...	379	362	17	...
Washing soiled clothes ...	198	198	...	...
Fish, fins ...	19	19	...	...
Skins, hides & leather ...	117	114	3	...
Paddy boiling ...	2	2	...	...
Sugar, sugarcandy ...	7	7	...	...
Catgut, tallow, offal, bones & blood...	8	8	...	...
Pig-stye ...	24	...	24	...
Snuff ...	87	81	6	...
Cotton ...	30	29	1	...
Lime kiln ...	26	22	4	...
Eating house, toddy shop etc. ...	879	802	77	...
	6.053	5,324	279	450

Statement showing the number of cases treated in the Corporation dispensaries during 1933 & 1934.

Serial No.	Dispensary.	Year in which the dispensary wasopened	Total number of cases treated.		Total number of operations formed.	
			1933	1934	1933	1934
1	Royapuram ...	1924	75,779	76,130	224	239
2	Washermanpet ...	1913	99,109	1,09,396	905	830
3	Harbour ...	1929	1,26,834	1,43,516	285	287
4	Mannady ...	1923	73,440	64,593	336	158
5	Mafuskhan ...	1923	42,533	98,794	325	270
6	Mint Street ...	1923	97,622	1,28,032	539	285
7	Trevelyan Basin ...	1919	1,066,27	1,070,79	468	615
8	Perambur ...	1928	21,493	50,212	250	260
9	Vyasarpady ...	1929	22,030	62,138	3987	3812
10	Kosapet ...	1929	38,324	74,747	1261	819
11	Baliah Naidu ...	1899	90,945	92,762	875	957
12	Kilpauk ...	1919	59,368	66,979	399	521
13	Nungambakam ...	1923	43.807	36.646	610	290
14	Chintadripet ...	1909	1,16,240	1,12,841	624	693
15	Pudupakkam ...	1924	1,02,207	1,00,952	684	570
16	Triplicane ...	1918	1,29,126	1,19,820	556	559
17	Teynampet ...	1921	45,874	46,992	409	418
18	Mambalam ...	1922	37,549	41,238	65	137
19	Mylapore ...	1924	1,25,565	42,757	492	579
20	Unani dispensary, Pulianthope ...	1930	87,005	84,973	430	241
21	Siddha dispensary, Choolai ...	1931	1,26,806	1,21,145	212	209
22	Ayurvedic Dispensary, Thousand lights	1930	54,738	54,857	197	240
23	Unani dispensary, Thayar Sahib St. ...	1932	1,09,031	1,30,510	166	247

Statement of notices issued and disposed of together with the statement of prosecutions instituted during the year 1934.

Section or By-law.	Substance of Section or By-law.	NOTICES.							PROSECUTIONS.								
		No. pending on 1st January 1934.	No. issued during the year 1934.	Total.	No. complied with: Voluntarily.	No. complied with: By prosecution.	No. complied with: By transfer to W. D. for departmental execution and recovery of cost.	No. cancelled.	No. pending.	No. of prosecutions pending disposal on 1st January 1934.	No. instituted during the year 1934.	Total.	No. convicted.	Fines imposed.	No. acquitted.	No. withdrawn.	No. in which the parties were not found.	No. pending.
(1)	(2)	(3)	(4)	(5)	(6)			(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
177	Control over house drains, privies and cess-pools. ...	...	13	13	8	...	...	...	5	...	3	3	...	Rs. A. P. ...	...	3	...	...
178 (2)	Connection of house drains with public drains ...	1	1	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...
178 (4)	Occupying or allowing occupation of house without proper drainage ...	...	...	...	...	...	...	...	...	...	6	6	1	1 0 0	...	5	...	...
186	Failure to obey requisition to provide latrine or to remove latrine to another site and failure to keep latrines clean and in proper order ...	361	624	985	263	130	3	258	331	28	561	589	110	112 1 0	1	372	5	101
187	Failure to provide latrines for premises used by large number of people or to keep them clean and in proper order ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
188	Failure to obey requisition to provide latrine for market, cattle-stand or cart-stand, or to keep them clean and in proper order ...	2	...	2	1	1	...	...	...	...	2	2	...	...	...	2	...	...
189	Failure to construct latrines so as to screen persons using them from view ...	...	2	2	1	...	...	...	1	...	...	...	...	...	...	...	...	...
202 (4)	Deposit of rubbish or filth in unauthorized place ...	...	...	...	...	...	...	...	...	...	1	1	1	5 0 0	...	...	...	...
202 (5)	Keeping rubbish or filth for more than twenty-four hours, etc. ...	9	5	14	11	1	1	...	1	...	3	3	1	0 8 0	...	2	...	...

Statement of notices issued and disposed of together with the statement of prosecutions instituted during the year 1934.

Section or By-law.	Substance of Section or By-law.	NOTICES.							PROSECUTIONS.							
		No. pending on 1st January 1934.	No. issued during the year 1934.	Total.	No. complied with			No. cancelled.	No. pending.	No. of prosecutions pending disposal on 1st January 1934.	No. instituted during the year 1934.	Total.	No. convicted.	Fines imposed.	No. acquitted.	No. withdrawn.	No. in which the parties were not found.	No. pending.
					Voluntarily.	By prosecution.	By transfer to W. D. for departmental execution and recovery of cost.											
(1)	(2)	(3)	(4)	(5)	(6)			(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
202 (6)	Prohibition against allowing sewage to flow in streets ...	10	24	34	26	4	1	...	3	...	6	6	2	1 4 0	...	4	...	...
260	Failure to obey requisition to repair, etc., tank or other place dangerous to passers-by or persons living in neighbourhood ..	3	3	6	3	...	...	1	2	.....	...	...	...	...	...	...	...	...
264	Failure to obey requisition to fill up, etc. tank or well, or drain off water, etc. ...	326	748	1074	670	54	...	47	303	10	109	119	33	33 12 0	1	55	...	30
265	Failure to obey requisition to cleanse or close etc., tank, well or other source of water used for drinking ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
267	Unlawful washing and fishing in river, or estuary after prohibition or contrary to regulations ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
269	Failure to obey requisition to enclose, clear or cleanse untenanted premises ...	10	50	60	29	6	...	6	19	6	11	17	5	3 8 0	...	12	...	...
270	Failure to obey requisition to clear or cleanse, etc., building or land in filthy state or over-grown with prickly-pear or other noxious vegetation ...	3	53	56	40	6	...	2	8	4	11	15	10	20 8 0	...	4	...	1
272	Failure to obey requisition to lime-wash or otherwise cleanse buildings ...	37	337	374	309	4	...	11	50	1	3	4	2	1 8 0	...	2	...	...

273	Failure to obey requisition to execute work or take other action with respect to insanitary buildings ...	599	1838	2,437	1,603	138	1	87	608	33	247	280	98	97	8	0	1	140	9	32		
279	Prohibition in respect of lodging houses ...	...	...	...	...	...	...	...	...	...	11	11	8	21	12	0	...	2	...	1		
280 (a)	Unlawful keeping of pigs ...	...	...	...	...	...	...	...	...	...	46	46	43	182	8	0	...	1	...	2		
280 (b)	Unlawful keeping of animal so as to be a nuisance or danger ...	...	...	...	...	...	...	...	...	...	...	...	...	...			...	...	...	...		
282	Use of place as stable, cattle stand, etc., without licence or contrary tax licence.	1	19	20	2	5	...	5	8	104	1025	1129	868	3,037	0	0	17	107	7	130		
283	Repairs to or demolishing of stable, cattle-shed, etc.	1	8	9	4	...	...	2	3	...	...	...	...	...			...	...	...	...		
284	Construction or maintenance of stable, cattle-shed, etc., contrary to Act or subsidiary legislation ...	6	7	13	11	...	...	...	2	1	6	7	5	3	8	0	...	2	...	...		
286	Failure to remove carcass of animlas ...	...	...	...	...	...	...	...	...	...	...	...	...	...			...	...	...	...		
287 (3)	Use of place without licence or contrary to licences ...	1	4	5	1	3	...	...	1	29	239	268	166	1,263	4	0	...	62	2	38		
288 (3)	Disobedience of order regarding chimneys...	...	...	...	...	...	...	...	...	...	...	...	...	...			...	...	...	...		
289 (a)	Disobedience of order regarding hours of work	...	...	...	...	...	...	...	...	...	...	...	...	...			...	...	...	...		
293 (2)	Washing of clothes by washermen at unauthorized places ...	31	34	65	27	5	...	1	3	9	7	16	...	...			...	9	...	7		
297	Slaughter of animals for sale of food or skinning or cutting up carcasses without licence or contrary to licence, drying skin so as to cause nuisance ...	...	...	...	...	...	...	...	...	...	5	5	4	1	12	0	...	..	...	1		
299	Carrying on milk-trade without licence or contrary to licence ...	...	1	1	1	...	...	...	...	...	17	17	13	14	8	0	...	...	...	4		

Statement of notices issued and disposed of together with the statement of prosecutions instituted during the year 1934.

Section or By-law.	Substance of Section or By-law.	NOTICES.							PROSECUTIONS.								
		No. pending on 1st January 1934.	No. issued during the year 1934.	Total.	No. complied with: Voluntarily.	No. complied with: By prosecution.	No. complied with: By transfer to W. D. for departmental execution and recovery of cost.	No. cancelled.	No. pending.	No. of prosecutions pending disposal on 1st January 1934.	No. instituted during the year 1934.	Total.	No. convicted.	Fines imposed.	No. acquitted.	No. withdrawn.	No. in which the parties were no found.	No. pending.
(1)	(2)	(3)	(4)	(5)	(6)			(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
302	Sale or exposure for sale in public market of animal or article of food withont licence or contrary to licence ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
303 (2)	Opening private market without licence or contrary to licence ...	...	...	...	...	...	...	...	...	1	2	3	2	78 0 0	...	...	...	1
304	Keeping open private market without a licence or contrary to licence ...	...	1	1	...	1	...	...	...	5	7	12	3	1 4 0	...	4	...	5
305	Sale or exposure for sale of animal or article in unlicensed private market ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
307 (2)	Opening or keeping open of private market after suspension or refusal of licence for default to carry out works ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
308	Breach of market regulations ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
309	Carrying on butcher's, fish-monger's or poulteror's trade without licence, etc. ...	...	...	...	...	...	...	...	...	3	15	18	11	164 0 0	...	5	...	2
310	Sale of article in public streets after prohibition or contrary to regulations ...	...	...	...	...	...	...	...	...	10	70	80	75	37 2 0	...	2	...	3
313	Preventing the Commissioner or any persen authorized by him from exercising his powers of entry, etc., under Section 312..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

315	Removing or in any way interfering with an animal or article secured under Section 314 ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
324 (3)	Burial or burning in place after prohibition.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
326	Discharge of the work of the grave digger without licence ...	...	...	...	...	...	...	...	...	...	...	3	3	3	6	0	0	...	...	...	...	...	...
334	Failure to obey requisition to cleanse or disinfect building or article ...	4	290	294	286	6	...	1	1	2	3	5	2	0	12	0	...	3	...	...	...	...	...
340	Letting of infected buildings ...	...	...	...	...	...	...	...	...	...	1	1	1	0	8	0	...	...	...	...	...	...	...
345	Failure to give information of small-pox ...	...	6	6	6	...	...	...	...	7	13	20	11	15	12	0	...	9	...	...	...	...	...
349 (11)	Failure to comply with the regluations regarding hotels, lodging houses, boarding houses, etc. ...	...	12	12	...	5	...	4	3	40	502	542	380	1494	9	0	3	94	...	65	...	...	...
349 (13)	Prevention of sale or exposure for sale of unwholesome meat, fish provisions, etc...	...	...	...	...	...	...	...	...	...	11	11	9	11	4	0	...	1	...	1	...	...	...
349 (21)	Sanitary control over places used for any of the purposes specified in Schedule VI	...	1	1	...	...	...	1	...	16	145	161	123	193	12	0	...	27	...	11	...	...	...
376	Obstruction by owner or occupier ...	1	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Medical Inspection of Corporation Schools,

1934–35.

STATEMENT I

No.	Defects.	Boys.								Girls.							
		Entrants.			Regulars.			Total of Entrants and Regulars.		Entrants.			Regulars.			Total of Entrants and Regulars.	
		No. Defective.	Percentage.		No. Defective.	Percentage.		No. Defective.	Percentage.	No. Defective.	Percentage.		No. Defective.	Percentage.		No. Defective.	Percentage.
			1934–35	1933–34		1934–35	1933–34				1934–35	1933–34		1934–35	1933–34		
1	Malnutrition ...	1468	16·09	23·86	2037	20·45	23·12	3505	18·36	90	1·94	1·40	191	3·18	2·35	281	2·64
2	Dirty head, body and nails ...	1304	14·29	16·31	1205	12·11	11·80	2510	13·15	333	7·16	7·81	181	3·02	3·15	514	4·83
3	Teeth and Mouth ...	883	9·68	17·66	1152	11·57	15·08	2035	10·66	439	9·44	11·20	486	8·10	11·18	925	8·68
4	Nose and Throat ...	1926	21·10	27·82	1981	19·89	24·10	3907	20·47	1103	23·73	22.49	1350	22·49	19·51	2453	23·03
5	Eye diseases ...	299	3·28	2·38	346	3·47	2·53	645	3·38	171	3·68	4·00	232	3·86	4·37	403	3·78
6	Vision ...	69	0·76	0·83	184	1·85	1·49	253	1.33	20	0·43	0.27	19	0·32	0·40	39	0·37
7	Ear diseases ...	97	1·06	1·54	159	1·60	1·74	256	1·34	62	1·33	1·61	102	1·70	1·75	164	1·54
8	Hearing ...	...	...	0·05	5	0·05	0·03	5	0·03	5	0·11	0·07	6	0·10	0·09	11	0·10
9	Speech ...	13	0·14	0·21	39	0·39	0·32	52	0·27	3	0·06	0·14	5	0·08	0·09	8	0·08
10	Circulatory System ...	99	1·08	1·04	135	1·36	1·11	234	1·23	14	0·30	0·20	17	0·28	0·40	31	0·29
11	Tuberculosis ...	8	0·09	0·11	26	0·26	0·14	34	0·18	9	0·19	0·14	12	0·20	0·24	21	0·20
12	Respiratory System ...	185	2·03	4·09	212	2·13	2·38	397	2·08	55	1·18	1·24	48	0·80	0·90	103	0·97
13	Abdominal Organs ...	172	1·89	3·06	206	2·07	1·99	378	1·98	34	0·73	0·36	39	0·65	0·24	73	0·69
14	Bones and Joints ...	214	2·35	3·32	157	1·58	2·68	371	1·94	14	0·30	0·27	25	0·42	0 29	39	0·37
15	Nervous and Psychic Systems ...	13	0·14	0.12	13	0 13	0·17	29	0·15	5	0·11	0·02	4	0·07	0·02	9	0·08
16	Infectious and Contagious diseases ...	1155	12·66	14·21	1367	13 72	13·34	2522	13·21	360	7·75	6·82	429	7·15	6·46	89	7·41
17	Other diseases and defects ...	467	5·12	7·37	492	4·90	5·50	959	5·02	136	2·93	2·78	204	3·40	3·84	340	3·19
18	Vaccination ..	62	0·68	0·94	...	...	...	62	0·32	8	0·17	0·41	...	...	...	8	0·08
19	Deformities ...	21	0·23	0·21	44	0·44	0·39	65	0·34	15	0.32	0·14	16	0·27	0·17	31	0·29

Appendix to Statement No. I. 1934–35.

Group.	No. on Roll.		Average daily attendance.		No. Examined.		No. Defective.		Percentage defective.	
	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.
Entrants	20,991	13,202	16,597	10,122	9,125	4,648	4,939	2,288	54·13	49·23
Regulars					9,961	6,003	5,695	2,582	57·17	43·01
Total ...	20,991	13,202	16,597	10,122	19,086	10,651	10,634	4,870	55·72	45·72

Statement No. II. Height and Weight Table.

Age	Boys		Girls		Remarks.
	Average height in inches.	Average weight in pounds.	Average height in inches.	Average weight in pounds.	
4	40·40	31·67	38·33	33·60	
5	40·54	31·97	39·36	31·39	
6	42·79	34·92	41·08	33·99	
7	43·01	37·63	42·92	35·74	
8	45·32	40·26	44·80	38·95	
9	47·09	42·02	46·91	43·77	
10	48·90	45·73	49·41	48·31	
11	50·85	51·05	51·59	53·27	
12	52·59	54·33	52·63	59·03	
13	54·31	59·22	55·05	65·79	
14	54·40	59·68	57·40	70·40	
15	56·73	67·40	57·43	72·08	
16	58·59	72·08	58·57	84·66	
17	59·25	75·54	58·63	92·94	5 Women
18	59·17	75·92	61·00	91·66	4 „
19	63·00	84·00	...	...	...
20	...	...	60·50	110·26	3 „
21	...	...	...	...	...
22	...	...	59·75	90·00	2 „
24	...	...	60·00	89·00	1 Woman
25	...	...	58·75	91·82	4 Women
26	...	...	59·00	116·00	1 Woman
27	...	...	61·00	64·00	1 „
31	...	...	57·00	82·50	2 Women
35	...	...	58·71	72·00	2 „

Treatment Table.

Group.	No. sent to Corporation dispensaries.	No. referred to Government hospitals.	No. referred to Ophthalmic hospital and Eye sections of other hospitals.	No. referred to Tuberculosis Institute.	No. referred to Govt. Gosha hospital.	No. referred to Skin Dept. of Govt. hospitals, Corporation skin clinis and City leper clinic.	No. of parents met.	No. of re-visits paid to schools.	No. of re-examinations of children.	Remarks.
Boys	8,921	1,302	165	20	...	621	5,301	185	18,382	
Girls	3,760	574	132	13	3	56	2,454	132	3,807	
Total ...	12,681	1,876	297	33	3	677	7,755	317	22,189	

Teeth & Mouth Table.

No.	Defects.	Entrants.						Regulars.						Total defective of boys and girls.
		Boys.			Girls.			Boys.			Girls.			
		No. Defective.	No. sent to Corporation dispensaries.	No. referred to Govt. hospitals.	No. Defective.	No. sent to Corporation dispensaries.	No. referred to Govt. hospitals.	No. Defective.	No. sent to Corporation dispensaries	No. referred to Government hospitals.	No. Defective.	No. sent to Corporation dispensaries	No. referred to Government hospitals.	
1	Dirty Teeth ...	190	45	72	84	...	37	277	70	118	108	...	74	659
2	Dental Caries ...	291	100	136	249	1	87	359	98	167	258	...	139	1157
3	Stomatitis ...	483	482	1	108	108	...	663	607	56	123	123	...	1377
4	Tongue Tie ...	14	...	14	2	...	2	11	...	11	1	...	1	28
5	Oral Sepsis ...	...	...	...	...	...	...	2	1	1	...	...	...	2
6	Other Conditions. ...	10	6	3	...	...	...	5	1	2	3	...	3	18

N. B.—Cases not amenable to or not requiring treatment have been omitted in the treatment Column.

Nose and Throat Table

No.	Defects	Entrants						Regulars.						Total defective of boys and girls.
		Boys			Girls			Boys			Girls			
		No. Defective	No. sent to Corporation dispensaries	No. referred to Government hospitals.	No. Defective	No. sent to Corporation dispensaries	No. referred to Government hospitals	No. Defective	No. sent to Corporation dispensaries	No. referred to Government hospitals	No. Defective	No. sent to Corporation dispensaries	No. referred to Government hospitals.	
1	Nasal catarrh ...	107	105	2	14	13	1	99	98	...	8	8	...	228
2	Nasal Polypus ...	...	...	...	5	...	5	1	...	1	2	...	2	8
3	Enlarged Tonsils ...	1624	479	145	998	947	56	1719	1496	222	1223	1030	93	5564
4	Granular Pharynx ...	1	1	...	...	...	...	9	6	3	...	...	...	10
5	Adenoids ...	95	...	95	1	...	1	135	...	135	...	...	...	231
6	Enlarged Cervical glands ...	239	239	...	87	87	...	189	189	...	165	165	...	680
7	Bifid and elongated uvula ...	1	...	...	6	...	...	6	...	...	...	...	...	13
8	Other Conditions ...	14	13	1	2	2	...	3	...	3	1	...	1	20

N. B.—Cases not amenable to or not requiring treatment have been omitted in the treatment column.

Eye Table.

No.	Defects.	Entrants.						Regulars.						Total defective of boys and girls.
		Boys.			Girls.			Boys.			Girls.			
		No. Defective.	No. sent to Corporation dispensaries.	No. referred to Government Ophthalmic hospital and Ophthalmic sections of other hospitals.	No. Defective.	No. sent to Corporation dispensaries.	No. referred to Government Ophthalmic hospital and Ophthalmic sections of other hospitals.	No. Defective.	No. sent to Corporation dispensaries.	No. referred to Government Ophthalmic hospital and Ophthalmic sections of other hospitals	No. Defective.	No. sent to Corporation dispensaries.	No. referred to Government Ophthalmic hospital and Ophthalmic sections of other hospitals.	
1	Conjunctivitis	... 126	118	8	78	77	1	97	85	12	80	80	...	381
2	Blepharitis	... 4	1	3	5	4	1	7	4	3	2	2	...	18
3	Granular lids	... 16	6	10	26	...	26	27	10	17	42	...	42	111
4	Corneal opacity	... 8	...	2	12	...	7	24	...	22	17	...	9	61
5	Corneal ulcer	... ...	...	...	1	...	1	1	...	1	6	...	6	8
6	Staphyloma	... 3	...	2	...	...	...	1	...	1	1	...	1	5
7	Dacryocystitis	... ...	...	...	1	...	1	1	...	1	...	...	...	2
8	Cataract	... ...	...	...	...	...	...	...	...	...	...	...	...	...
9	Xerosis	... 120	120	...	38	38	...	135	135	...	51	51	...	344
10	Stye	... 8	3	5	10	10	...	13	7	6	5	8	...	39
11	Squint	... 21	...	13	6	...	2	32	...	16	18	...	10	74
12	Keratitis	... ...	...	...	...	...	...	1	...	1	...	...	...	1
13	Ptosis	... 1	...	...	...	...	...	...	...	...	...	...	...	1
14	Other conditions	... 5	...	5	3	1	2	13	2	9	8	1	7	29
15	Defective Vision	... 69	40	29	20	...	13	184	73	111	19	...	8	292

N. B.—Cases not amenable to or not requiring treatment have been omitted in the treatment column.

Infectious Diseases Table.

No.	Defects.	Entrants.						Regulars.						Total defective of boys and girls.
		Boys.			Girls.			Boys.			Girls.			
		No. Defective.	No. sent to Corporation dispensaries.	No. referred to special sections of hospitals.	No. Defective.	No. sent to Corporation dispensaries.	No. referred to special sections of hospitals.	No. Defective.	No. sent to Corporation dispensaries.	No. referred to special sections of hospitals.	No. Defective.	No. sent to Corporation dispensaries.	No. referred to special sections of hospitals.	
	Skin :—													
1	Scabies ...	729	729	...	312	312	...	908	908	...	347	347	...	2296
2	Eczema ...	78	78	...	2	2	...	132	132	...	1	1	...	213
3	Tinea and Fungus ...	182	177	5	25	25	...	237	235	2	32	32	...	476
4	Lichen ...	55	52	3	...	...	...	51	45	6	...	...	...	106
5	Dermatitis ...	6	2	4	...	...	...	3	2	1	2	2	...	11
6	Pruritis ...	13	13	...	...	...	...	10	10	...	...	...	...	23
7	Psoriasis ...	...	...	...	...	...	...	3	2	1	...	...	...	3
8	Impetigo ...	...	...	...	...	...	...	1	1	...	...	...	...	1
9	Leprosy ...	154	...	154	9	1	8	283	283	...	30	8	22	476
10	Other conditions ...	3	...	3	...	...	...	4	...	4*	...	...	...	7
	Other infectious diseases :—													
1	Malaria ...	6	6	...	5	5	...	4	4	...	5	5	...	20
2	Kala-azar ...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	Hook-worm ...	11	6	5	3	2	1	7	3	4	6	3	3	27
4	Influenza ...	2	2	...	...	...	...	...	...	...	1	...	1	3
5	Mumps ...	1	1	...	...	...	...	...	...	...	2	2	...	3
6	Gonorrhoea ...	...	...	...	...	...	...	...	...	...	1	...	1	1
7	Congenital Syphilis ...	1	...	1	...	...	...	2	...	2	...	...	...	3
8	Other conditions ...	3	2	1	4	4	...	4	1	3	2	2	...	13

N.B.—Cases not amenable to or not requiring treatment have been omitted in the treatment column.

* One was advised ultra-voilet ray treatment for Lupus.

Other Diseases Table.

No.	Defects.	Entrants.						Regulars.						Total defective of boys and girls.
		Boys.			Girls.			Boys.			Girls.			
		No. defective.	No. sent to Corporation dispensaries.	No. referred to Government hospitals.	No. defective.	No. sent to Corporation dispensaries.	No. referred to Government hospitals.	No. defective.	No. sent to Corporation dispensaries.	No. referred to Government hospitals.	No. defective.	No. sent to Corporation dispensaries.	No. referred to Government hospitals.	
1	Worms ...	199	199	...	21	21	...	124	124	...	67	67	...	411
2	Wounds, cuts, ulcers, etc.	75	70	5	51	51	...	102	92	10	47	47	...	275
3	Undescended Testis ...	2	...	1	...	...	...	3	...	1	...	...	...	5
4	Phimosis ...	68	...	68	...	...	...	139	...	139	...	...	...	207
5	Enlarged groin glands ...	14	10	4	...	...	...	17	11	6	...	...	...	31
6	Pyrexia ...	18	18	...	24	24	...	11	11	...	31	31	...	84
7	Boils and abscesses ...	43	43	...	15	15	...	31	30	1	14	14	...	103
8	Keloids ...	...	...	...	1	...	...	...	...	...	...	...	...	1
9	Warts ...	1	1	...	1	...	...	...	...	...	1	1	...	3
10	Leucodermic patches ...	12	2	2	13	9	9	20	2	3	19	17	...	64
11	Tumours ...	5	...	2	2	...	2	5	...	2	5	...	5	17
12	Obesity ...	1	...	1	...	...	...	2	...	1	...	...	...	3
13	Whitlow ...	1	1	...	...	...	...	1	1	...	1	1	...	3
14	General Xerosis ...	25	23	2	...	...	...	29	29	...	...	...	...	54
15	Dog and snake bite ...	...	...	...	...	...	...	1	...	1	1	...	1	2
16	Sinus ...	1	...	1	...	...	...	1	...	1	...	...	...	2
17	Burns and Scalds ...	...	...	...	...	...	...	1	...	1	1	1	...	2
18	Other conditions ...	10	4	3	17	17	...	13	2	3	18	15	3	58

N. B.—Cases not amenable to or not requiring treatment have been omitted in the treatment column.

Statement showing the details of defects found on Medical Inspection of Schools, 1934–35.

No.	Systems or Organs.	Diseases.	No. Defective.				Total defective of boys and girls.
			Entrants.		Regulars.		
			Boys.	Girls.	Boys.	Girls.	
1	Ear.	1. Otorrhoea ...	83	52	147	89	371
		2. Otitis ...	4	10	12	17	43
		3. Other ear diseases ...	10	...	4	...	14
		4. Defective hearing ...	...	5	5	6	16
2	Speech.	1. Stammering ...	10	3	32	5	50
		2. Lisping ...	3	...	7	...	10
		3. Dumb ...	...	...	1	...	1
3	Heart and circulation.	1. Heart Disease (a) Organic ...	14	9	34	5	62
		(b) Functional ...	34	1	48	2	85
		2. Anaemia ...	51	4	53	9	117
		3. Other conditions ...	...	...	...	1	1
4	Lungs.	1. Bronchitis (acute and chronic) ...	181	55	197	47	480
		2. Other non-tubercular diseases (asthma, etc.)	6	...	15	1	22
5	Tuberculosis	1. Pulmonary (a) Definite ...	...	2	9	2	13
		(b) Suspected ...	8	2	15	5	30
		2. Non-Pulmonary (a) Glands ...	...	5	2	5	12
		(b) Spine ...	...	...	...	...	...
		(c) Hip ...	...	...	...	...	...
		(d) Bones & Joints	...	...	...	...	...
		(e) Skin ...	...	...	...	...	...
		(f) Other forms ...	...	...	...	...	...
6	Abdominal Organs.	1. Enlarged Spleen ...	95	24	87	23	229
		2 ,, Liver ...	2	...	3	1	6
		3 ,, Liver and Spleen ...	1	...	1	...	2
		4. Hydrocele (a) Vaginal ...	9	...	23	...	32
		(b) Cord ...	2	...	4	...	6
		(c) Infantile ...	...	...	6	...	6
		5. Hernia (a) Inguinal ...	20	...	44	...	64
		(b) Umbilical ...	12	2	5	3	22
		(c) Femoral ...	...	...	...	...	...
		6. Stomach conditions ...	2	1	2	2	7
		7. Bowel conditions ...	23	5	19	6	53
		8. Other conditions ...	10	1	15	2	28
		9. Generative disorders in girls ...	...	1	...	2	3
7	Bones and Joints.	1. Bones (a) Fractures ...	...	...	1	...	1
		(b) Caries ...	...	...	...	...	...
		(c) Deformities ...	...	3	...	5	8
		(d) Diseases ...	...	...	...	...	...
		2. Joints (a) Dislocations & sprains ...	...	...	4	1	5
		(b) Diseases ...	1	2	...	1	4
		(c) Deformities ...	...	...	...	...	...
		3. Rickets (a) General ...	...	1	4	...	5
		(b) Deformed chest ...	213	8	148	18	387
8	Nervous System.	1. Organic disease (palsies etc.) ...	2	...	3	1	6
		2. Functional disorders ...	3	...	7	...	10
		3. Other conditions ...	4	...	2	...	6
9	Psychic System.	1. Mentally defective ...	4	5	1	3	13
10	Deformities.	1. General Deformity–					
		(a) Spinal deformity ...	3	1	7	1	12
		(b) Talipes ...	2	5	5	3	15
		(c) Shortened limbs ...	1	1	6	...	8
		(d) Congenital dislocation hip ...	...	...	2	...	2
		(e) Ankylosis of joints ...	1	1	2	...	4
		(f) Amputated limbs ...	2	...	...	...	2
		(g) Genu Varum and Valgum ...	...	...	2	3	5
		(h) Supernumerary Fingers ...	4	1	2	1	8
		(i) Flat foot ...	...	...	1	1	2
		(j) Syndactily ...	...	1	1	...	2
		(k) Dwarf ...	...	1	...	...	1
		(l) Other conditions ...	9	6	14	7	36

Statement of " following-up " work done showing the results of medical advice, 1934–1935.

No.	Systems or Organs.	Diseases.	Operations performed after medical advice.	No. of cases cured after treatment	No. of cases improved after treatment.	No. of cases where treatment was continued.	Remarks.
1	...	Malnutrition ...	...	614	1178	1524	
2	Teeth and Mouth	Dirty teeth ...	67	81*	136*	74	* Cleaned and washed teeth daily.
		Dental Caries ...	77	3	17	86	
		Stomatitis ...	...	456	257	188	
		Glossitis ...	...	7	...	11	
		Gum boil ...	2	...	...	...	
3	Nose & Throat...	Nasal Catarrh and Rhinitis.	...	84	55	87	
		Enlarged Tonsils and Adenoids.	78	596	1412	1533	
		Enlarged Cervical glands.	...	71	219	249	
		Granular Pharynx ...	...	7	...	3	
		Nasal Polypus ...	2	...	...	...	
		Enlarged Sub-maxillary gland.	...	...	...	2	
		Epistaxis ...	...	1	...	...	
4	Eye Diseases ...	Conjunctivitis ...	...	243	41	13	
		Xerosis ...	...	42	50	139	
		Stye ...	...	26	...	...	
		Granular lids ...	...	...	33	38	
		Blepharitis ...	...	8	3	4	
		Leucoma ...	...	...	1	3	
		Staphyloma ...	...	...	...	1	
		Pterygium ...	...	...	...	1	
		Corneal Opacity ...	...	...	5	11	
		Photophobia ...	...	...	...	2	
		Phlyctenular Conjunctivitis.	...	1	3	3	
		Dacryocystitis ...	...	...	1	1	
		Sympatheticophthalmia	...	...	...	2	
		Nebula ...	...	...	1	2	
		Trichiasis ...	...	1	...	...	
		Hypopyon ulcer ...	1	...	...	...	
		Subconjunctival Haemorrhage.	...	3	...	...	
5	Defective Vision.	...	17	15	28	46	
6	Ear Diseases ...	Otitis ...	...	24	7	8	
		Otorrhoea ...	...	114	65	118	
		Wax ear ...	...	23	2	9	
		Foreign body ear ...	...	1	...	...	
7	Circulatory System.	Anaemia ...	...	6	49	45	
		Functional disease ...	...	6	37	39	
		Organic disease ...	...	...	8	19	
8	Tuberculosis ...	Pulmonary —					
		(a) Definite ...	...	2	5	6	
		(b) Suspected ...		...	13	11	6 not traceable
		Other forms ...	...	...	1	7	4 not traceable

Statement of "following-up" work done showing the results of medical advice 1934-35.—(Contd.)

No.	Systems or Organs.	Diseases.	Operations performed after medical advice.	No. of cases cured after treatment.	No. of cases improved after treatment	No. of cases where treatment was continued.	Remarks.
9	Respiratory System.	Bronchitis ...	...	279	61	10	
		Asthma ...	...	1	8	4	
10	Abdominal Organs.	Enlarged Spleen ...	...	46	62	109	12 Not traceable
		Enlarged Liver ...	...	1	3	2	
		Enlarged Liver and spleen. ...	...	...	2	...	
		Diarrhoea ...	...	2	1	...	
		Dysentery ...	...	2	...	...	
		Colic ...	...	4	...	...	
		Colitis ...	...	1	...	...	
		Gastritis ...	...	4	1	1	
		Chronic constipation .	...	17	...	...	
		Jaundice ...	...	2	4	2	
		Inguinal Hernia ...	4	...	...	...	
		Generative Disorders .	...	3	...	...	
11	Bones and Joints	Arthritis ...	...	1	...	1	
		Rickety chest and General Rickets ...	...	28	124	224	
12	Infectious and Contagious Diseases.	Scabies ...	...	959	343	134	
		Eczema ...	...	77	49	41	
		Tinea, fungus and Ringworm ...	...	95	151	49	
		Leprosy ...	...	5	46	335	58 Indifferent, 32 left
		Lichen ...	...	16	41	10	
		Pruritis ...	...	1	...	...	
		Urticaria ...	...	2	...	...	
		Psoriasis ...	...	1	1	1	
		Malaria ...	...	13	4	...	
		Hookworm ...	...	18	5	4	
		Mumps ...	...	2	...	...	
		Influenza ...	...	3	...	...	
		Whooping Cough ...	...	4	...	2	
		Dermatitis ...	...	1	...	4	
		Gonorrhoea ...	...	...	1	...	
		Impetigo ...	...	...	1	...	
		Icthyosis ...	...	...	3	3	
13	Nervous and Psychic systems	Facial Paralysis ...	...	...	...	1	
		Neuritis ...	...	...	...	1	
		Incontinence of urine.	...	...	...	2	
		Epilepsy ...	...	...	...	1	
14	Other diseases and defects.	Worms ...	...	211	8	20	
		Wounds, cuts, ulcers, etc. ...	...	235	17	20	
		Boils and Abscesses.	3	65	3	3	
		Pyrexia ...	...	70	...	...	
		Phimosis ...	43	...	...	...	
		Leucodermic patches.	...	...	1	1	
		Burns, Scalds and Whitlow ...	1	2	...	...	
		Sinuses ...	...	2	...	...	
		Enlarged groin glands	...	1	4	9	
		Warts ...	...	1	...	...	
		Dog bite and Snake bite ...	...	1	...	1	
		Tumour Thyroid ...	...	1	...	...	
		Other Conditions ...	...	8	2	5	

Statement showing the number of cases admitted, and discharged and of deaths under various diseases in the Tondiarpet infectious diseases hospital during 1934.

	Small-pox.	Chicken-pox.	Measles.	Cholera.	Dysentery.	Diarrhoea.	Mumps.	Whooping cough.	Pneumonia.	Enteric fever.	Malaria.	Pyrexia of unknown origin.	Kala-Azar.	Pulmonary tuberculosis.	Secondary syphilis.	Plague.	Other diseases.	Total.
Patients remaining in the hospital on 31-12-33 at 12 midnight ...	18	9	2	5	...	3	...	...	...	...	...	...	...	...	...	...	10	47
Patients admitted from 1-1-34 to 31-12-34 *...	351	383	46	175	18	99	7	1	3	1	...	15	...	...	2	...	153	1254
Total number treated ...	369	392	48	180	18	102	7	1	3	1	...	15	...	...	2	...	163	1301
No. discharged ...	304	375	47	113	10	101	7	1	1	1	...	14	...	...	2	...	109	1085
No. died ...	58	...	...	66	7	1	...	...	2	...	...	1	...	...	...	...	52	187
Mortality rate per cent ...	15·7	...	...	36·6	38·8	0·9	...	...	66·6	...	...	6·6	...	...	...	...	31·9	14·3
Patients remaining in the hospital on 31-12-34 at 12 midnight ...	7	17	1	1	1	...	...	...	...	...	...	...	...	...	...	...	2	29

* Includes admissions from the mofussil.

Statement showing the vaccinal condition of patients for Small-pox in the Tondiarpet infectious diseases hospital during 1934.

Age.	Vaccinated.																Unvaccinated.			
	Vaccinated successfully with marks visible.									Vaccinated with marks not visible.			Total.							
	1	2	3	4	5	6	Total admitted.	Deaths.	Mortality per cent.	Total admitted.	Deaths.	Mortality per cent.	Admission.	Deaths.	Recovered.	Mortality per cent.	Admission.	Deaths.	Recovered.	Mortality per cent.
Under 1 year	...	2	...	...	...	...	2	1	50	5	4	80	7	5	2	71·4	9	4	5	44.4
1—2 years	...	...	...	...	...	...	...	...	...	1	...	...	1	...	1	...	...	...	...	...
2—3 „	...	...	...	...	...	...	...	...	...	2	1	50	2	1	1	50	1	...	1	...
3—4 „	...	...	...	1	...	...	1	...	...	3	...	...	4	...	4	...	...	...	...	...
4—5 „	...	...	...	...	...	...	...	...	...	2	...	...	2	...	2	...	1	...	1	...
5—10 „	3	2	4	1	2	2	14	...	...	7	1	14·2	21	1	20	4·7	5	...	5	...
10—20 „	5	12	7	19	7	...	50	3	6	30	4	13·3	80	7	73	8·7	7	1	6	14.2
20—40 „	17	28	23	50	3	6	127	9	7·08	28	16	57·1	155	25	130	16·1	15	2	13	13·3
40—60 „	7	5	5	5	...	4	26	6	23·07	2	2	100	28	8	20	28.5	10	3	7	30·0
60 & upwards	...	...	...	1	...	...	1	...	...	2	...	...	3	...	3	...	...	...	...	...
Total ...	32	49	39	77	12	12	221	19	8·5	82	28	34·1	303	47	256	15·5	48	10	38	20·8

Statement showing the number of cases admitted, discharged and of deaths under various diseases in the Krishnampet infectious diseases hospital during 1934.

	Small-pox.	Chicken-pox.	Measles.	Cholera.	Dysentery.	Diarrhoea.	Mumps.	Whooping cough.	Pneumonia.	Enteric fever.	Malaria.	Pyrexia of unknown origin.	Kala-Azar.	Pulmonary tuberculosis.	Secondary syphilis.	Other diseases.	Total.
Patients remaining in the hospital on 31st December 1933. ...	26	...	...	4	...	...	...	...	...	...	...	...	...	...	...	4	34
Patients admitted from 1-1-34 to 31-12-34* ...	256	34	22	204	9	...	1	...	...	1	2	...	...	...	...	148	677
Total number treated ...	282	34	22	208	9	...	1	...	...	1	2	...	...	...	...	152	711
No. Discharged ...	228	23	20	107	9	...	1	...	...	1	2	...	...	...	...	114	505
No. Died ...	48	...	...	98	...	...	...	...	...	...	...	...	...	...	...	37	183
Mortality rate percent ...	17·02	...	...	47·12	...	...	...	...	...	...	...	...	...	...	...	24·34	25·74
Patients remaining in the hospital on 31-12-34 at 12 midnight ...	6	11	2	3	...	...	...	...	...	...	...	...	...	...	...	1	23

* Includes admissions from the mofussil.

Statement showing the vaccinal condition of patients for Small-pox in the Krishnampet infectious diseases hospital during 1934.

Age.	Vaccinated.															Unvaccinated.			
	Vaccinated successfully with marks visible.								Vaccinated with marks not visible.			Total.							
	1	2	3	4	5 & 6	Total admitted.	Deaths.	Mortality per cent.	Total admitted.	Deaths.	Mortality per cent.	Admission.	Deaths.	Recovered.	Mortality per cent.	Admission.	Deaths.	Recovered.	Mortality per cent.
Under 1 year	...	1	...	...	...	1	...	...	1	...	...	2	...	2	...	7	6	1	85·71
1—2 years	...	...	...	...	...	...	...	...	1	...	...	1	...	1	...	1	1	...	100·0
2—3 „	...	...	...	...	...	...	...	...	1	1	100·0	1	1	...	100·0	4		...	75·0
3—4 „	...	...	...	...	...	...	...	...	3	1	33·33	3	1	2	33·33	2	...	2	...
4—5 „	...	...	...	...	...	...	...	...	1	...	...	1	...	1	...	...	...	...	...
5—10 „	3	1	...	3	...	7	...	...	8	...	...	15	...	15	...	3	2	1	66·67
10—20 „	10	26	2	6	3	47	2	4·26	28	9	32·14	75	11	64	14·67	5	3	2	60·0
20—40 „	14	29	14	25	7	89	9	10·12	26	7	26·92	115	16	95	13·91	7	3	3	42·86
40—60 „	...	...	...	3	4	7	1	14·29	5	...	...	12	1	11	8·33	...	...	...	...
60 & upwards	...	1	...	...	...	1	...	...	1	...	...	2	...	2	...	...	...	...	...
Total ...	27	58	16	37	14	152	12	8·89	75	18	24·65	227	30	193	13·22	29	18	9	26·07

Statement showing the admissions in the two infectious diseases hospitals according to nationality and sex during 1934.

Nationality.	Tondiarpet hospital.		Krishnampet hospital.		Total.
	Males.	Females.	Males.	Females.	
Europeans ...	1	2	9	9	21
Hindus ...	274	190	584	273	1321
Muhammadans ...	8	11	29	10	58
Others ...	104	87	200	140	531
Total ...	387	290	822	432	1931

Statement of the cases treated in the Skin Clinics.

Clinics.	No. of leprosy cases treated.			No. of injections given.	Results of treatment.		No. of skin cases treated.
	Infective.	Non-infective.	Total.		No. cured.	No. improved.	
Ice House							
Road,							
Triplicane ...	287	456	743	5,768	...	203	3,182
Vyasarpady.	134	98	232	3,085	2	101	879

Water Analysis (Statements).

Table I–Meteorological Data for the city of Madras (daily averages) 1934.

Month.	Hours of bright sunshine	Percentage of cloudy day	Velocity of wind in miles per day	Maximum Temperature (°F)	Minimum Temperature (°F)	Mean Temperature (°F)	Total Rain fall (in inches) for the month
January	6·7	6·9	217	82·5	70·3	75·9	2·05
February	10·8	2·8	152	85·5	66·5	75·6	Nil.
March	9·7	4·0	165	88·5	71·5	79·7	
April	9·8	5·0	192	92·4	77·7	83·8	0·74
May	10·8	4·4	205	98·2	81·8	87·5	Nil.
June	6·2	8·2	167	96·9	80·3	86·7	1·76
July	5·6	8·3	165	95·0	78·8	85·3	2·07
August	6·0	7·8	148	93·0	77·3	83·4	7·17
September	8·0	6·6	168	93·5	78·1	84·2	2·00
October	6·4	7·1	169	88·1	75·6	81·0	16·82
November	7·7	6·2	219	84·8	71·1	77·6	1·86
December	7·9	5·9	235	82·5	68·3	74·9	2·19

TABLE II

Showing the monthly Lake Level and Rainfall in Sholovaram Lake and Red Hills Lake for 1934.

Month.	Sholovaram Lake.		Red Hills Lake.		
	Rainfall in inches.	Lake level in feet.	Rainfall in inches.	Lake level in feet.	Mean Temperature °F
January ...	1·87	15·11 (21–1–34)	2·77	66·13	85·55
February ...	...	14·73 (25–2–34)	...	65·73	84·92
March ...	0·14	13·04 (30–3–34)	...	64·31	84·24
April ...	0·44	8·35 (29–4–34)	...	63·03	84·12
May ...	.....	2·35 (20–5–34)	...	62·48	88·80
June ...	3·73	0·35 (25–6–34)	2·78	60·74	87·94
July ...	2·84	0·20 (29–7–34)	2·15	59·53	87·31
August ...	5·20	1·70 (26–8–34)	8·22	59·15	85·79
September ...	3·09	1·05 (30–9–34)	3·46	59·89	84·00
October ...	16·37	7·20 (28–10–34)	16·72	59·66	83·73
November ...	2·76	13·32 (17–11–34)	2·90	63·86	78·71
December ...	0·90	13·30 (22–12–34)	1·33	65·72	77·04
Total ...	37·34	...	40·33	62·52	...

TABLE III

Vertical and Seasonal changes in Temperature (°C) in Sholavaram Lake 1934.

Date.	21-1-34	25-2-34	11-3-34	30-3-34	29-4-34	20-5-34	25-6-34	29-7-34	26-8-34	30-9-34	28-10-34	17-11-34	22-12-34
Time.	11-25 A.M.	12-0 Noon.	10-0A.M.	11-0A.M.	10-0A.M.	9-45 A.M.	10-0A.M.	9-20A.M.	10-30 A.M.	9-40A.M.	11-30 A.M.	12 Noon.	10-0A.M
Place.	Near the Head-Sluice.												
Depth in Metres	1	2	3	4	5	6	7	8	9	10	11	12	13
0·0	25·4	27·5	28·4	29·4	30·4	29·8	28·3	29·2	29·6	29·0	26·2	26·6	25·6
0·5	...	27·4	...	29·4	...	29·2	...	...	...	...	...	...	25·3
1·0	25·1	27·1	28·0	28·9	29·8	...	...	...	...	...	25·6	26·1	25·2
1·5	...	27·2	28·0	28·8	...	...	...	...	...	...	25 6	26·1	...
2·0	25·2	27·3	28·0	28·8	29·2	...	...	...	...	...	25·6	26·1	25·2
2·5	...	27·3	28·0	28·8	29·2 (2·3 m.)	...	...	...	...	...	...	...	...
3·0	25·2	27·2	27·8	28·8	...	...	...	...	...	...	...	26·1	25·2
3·5	...	27·0	27·8	28·8	...	...	...	...	...	...	...	26·1	25·2
4·0	25·2	26·7	...	28·6	...	...	...	...	...	...	...	26·1	...
4·5	25·2	26·7 (4·3 m.)	27.4 (4·2 m.)	...	...	...	...	...	...	...	...	...	...
5·0	...	...	...	...	...	...	...	...	...	...	...	...	...

Table No. IV showing the Vertical and Seasonal Distribution of Dissolved Oxygen in Sholavaram Lake, 1934.

Date ...	21-1-34		25-2-34		11-3-34		30-3-34		29-4-34		20-5-34		25-6-34		29-7-34		26-8-34		30-9-34		28-10-34		17-11-34		22-12-34	
Time ...	11-25 A. M.		12 Noon		10-0 A.M.		11-0 A.M.		10-0 A.M.		9-45 A.M.		10-0 A.M.		9-20 A.M.		10-30 A.M.		9-50 A.M.		11-30 A.M.		12 Noon		10-0 A.M.	
Place ...	Near the Head-Sluice.																									
Depth in metres.	D.O. CC L	% Sat.	D.O. CC L	% Sat.	D.O. CC L	% Sat.	D.O CC L	% Sat.	D.O. CC L	% Sat.	D.O. CC L	% Sat.	D.O. CC L	% Sat.	D.O. CC L	% Sat.	D.O. CC L	% Sat.	D.O. CC L	% Sat.	D.O. CC L	% Sat	D.O CC L	% Sat.	D.O. CC L	% Sat
0·0 m	5·92	98·6	5·44	93·9	5·22	91·4	5·82	103·5	4·62	83·5	4·90	87·7	4·59	80·2	5·94	107·2	3·95	70·5	3·22	56·9	3·41	57·6	5·38	91·5	5·36	89·6
0·5 ,,	...	...	5·44	93·7	...	...	...	...	...	...	3·92	70·7	...	...	...	...	...	...	...	...	...	...	...	...	5·40	89·8
1·0 ,,	5·92	98·2	5·35	91·8	5·22	90·8	5·47	96·5	4·80	85·9	...	...	...	...	...	...	...	...	...	...	3·53	59·0	4·75	80·1	5·40	89·7
1·5 ,,	...	...	5·35	91·9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3·41	57·0	4·75	80·1	...	...
2·0 ,,	5·82	96·7	5·35	92·0	5·22	90·8	5·41	95·3	4·68	84·4	...	...	...	...	...	...	...	...	...	...	3·41	57·0	4·75	80·1	5·40	89·7
2·5 ,,	...	...	5·35	92·0	...	...	...	...	4·73 (2·3m)	85·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3·0 ,,	5·82	96·7	5·35	91·8	5·47	94·8	5·70	100·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4·75	80·1	5·27	87·5
3.5 ,,	...	...	5·35	91·6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4·75	80·1	5·27	87·5
4·0 ,,	5·60	93·0	4·97	84·7	...	...	5·85	102·7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4.5 ,,	5·60	93·0	4·85 (4·3m)	82·6	5·47 (4·2m)	94·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5·0 ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

TABLE No. V.

Hydrogen-ion concentration changes (pH)—Sholavaram Lake, 1934.

Date	21-1-34	25-2-34	11-3-34	31-3-34	29-4-34	20-5-34	25-6-34	29-7-34	26-8-34	30-9-34	28-10-34	17-11-34	22-12-34
Time	11-25 A.M.	12 Noon	10-0 A.M.	10-0 A.M.	10-0 A.M.	9-45 A.M.	10-0 A.M.	9-20 A.M.	10-30A.M	9-40 A. M	11-30 A.M.	12 Noon	10-0 A.M.
Place	Near the Head Sluice.												
Depth	1	2	3	4	5	6	7	8	9	10	11	12	13
0·0 m	8·0	8·5	8·55	8·6	8·6	8·8	9·1	9·0	9·1	9·1	8·3	8·3	8·5
0·5 „	...	...	...	...	8·6	8·8	...	...	...	...	...	...	8·5
1·0 „	8·0	8·5	8·55	8·7	8·6	...	...	...	...	...	8·3	8·1	8·5
1·5 „	...	...	...	...	8·6	...	...	...	...	...	8·3	8·1	...
2·0 „	8·0	...	8·55	8·7	8·6 (2·3 m)	...	...	...	...	...	8·3	8·1	8·5
2·5 „	...	8·6	...	...	...	...	...	...	...	...	...	...	...
3·0 „	8·0	...	8·55	8·7	...	...	...	...	...	...	...	8·1	8·5
3·5 „	...	...	...	...	...	...	...	...	...	...	...	8·1	8·5
4·0 „	8·0	8·6 (4·3 m)	8·55 (4·2 m)	8·7	...	...	...	...	...	...	...	8·1	...
4·5 „	8·0	...	...	...	...	...	...	...	...	...	...	...	...
5·0 „	...	...	...	...	...	...	...	...	...	...	...	...	...

Table VI—Silicates (expressed as SiO_2 in mg per Litre)-Sholavaram Lake, 1934.

Date	21-1-34	25-2-34	11-3-34	31-3-34	29-4-34	20-5-34	25-6-34	29-7-34	26-8-34	30-9-34	28-10-34	17-11-34	22-12-34
Time	11-25 A.M.	12 Noon	10-0 A.M.	10-0 A.M.	10-0 A.M.	9-45 A.M.	10-0 A.M.	9-20 A.M.	10-30A.M	9-40 A. M	11-30 A.M.	12 Noon	10-0 A.M.
Place	Near the Head Sluice.												
Depth	1	2	3	4	5	6	7	8	9	10	11	12	13
0·0 m	13·0	12·0	17·5	11·5	10·0	10·75	16·0	15·0	12·0	9·0	10·0	14·0	13·0
0·5 „	...	12·0	...	...	...	11·75	...	...	...	...	...	...	13·0
1·0 „	13·0	12·0	16·5	11·5	15·0	...	...	...	...	...	10·0	14·0	13·0
1·5 „	...	12·0	...	...	...	...	...	...	...	...	10·0	14·0	...
2·0 „	13·0	12·0	17·0	11 5	11·25	...	...	...	...	...	10·0	14·0	13·0
2·5 „	...	12·0	...	...	10·75 (2·3 m)	...	...	...	...	...	...	...	...
3·0 „	13·0	12·0	17·5	11·5	...	...	...	...	...	...	...	14 0	13·0
3·5 „	...	12·0	...	...	...	...	...	...	...	...	...	14·0	13·0
4·0 „	13·0	12·0	...	...	...	...	...	...	...	...	...	...	...
4·5 „	13·0	12·0 (4·3 m)	17·0 (4·2 m)	11·5	...	...	...	...	...	...	...	...	...
5·0 „	...	...	...	...	...	...	...	...	...	...	...	...	...

TABLE VII

Limnological Data for Sholavaram Lake—Surface Water. 1934.

Date of collection.	Depth in feet	Transparency in cm.	Temperature of surface water oc.	Dissolved oxygen in c.c. per litre.	Milligrams per litre.			pH	Results expressed in parts per 100,000.									Lactose Fermenters pre-sent in ? c.c. and up-wards	Total colonies per c.c. on agar at 37°C after 48 hours.	Meteorological conditions.
					Free CO_2	CO_3	HCO_3		Total Solids	Fixed Solids	Ignitible matter	Combined chlorine.	Ammoniacal N	Albuminoid N	Absorbed oxygen (Tidy's)	Nitric N	Nitrous N			
21-1-34	15·11	167·0	25·4	5·92	1·98	Nil.	129·63	8·0	20·8	16·4	4·0	5·80	0·002	0·027	0·119	Nil.	Nil.	1	1,200	Not bright sunshine-cloudy sky-strong wind.
25-2-34	14·73	186·0	27·5	5·44	Nil.	12·0	122·00	8·5	24·6	20·6	4·0	4·35	Trace.	0·016	0·110	,,	,,	20	740	do
11-3-34	14·11	170·0	28·4	5·22	,,	13·5	117·43	8·55	25·4	20·8	4·6	5·00	0·003	0·022	0·095	,,	,,	20	600	Bright sunshine-clear blue sky-moderate wind
30-3-34	13·04	216·0	29·4	5·82	,,	18·0	106·75	8·6	...	...	...	...	0·006	0·016	0·093	,,	,,	...	...	Not bright sunshine-thin white clouds-moderate wind.
29-4-34	8·35	180·0	30·4	4·62	,,	27·0	68·63	8·6	25.8	21·8	4·0	5·65	0·002	0·020	0·133	,,	,,	60	600	Not bright sunshine-whitish blue sky-slight wind
20-5-34	2·35	...	29·8	4·90	,,	22·5	68·63	8·8	26·2	21·5	4·7	5·05	0·003	0·027	0·137	,,	,,	10	600	do
25-6-34	0·35	...	28·3	4·59	,,	18·0	73·20	9·1	27·8	23·0	4·8	7·45	0·002	0·04	0·264	,,	,,	1	1,100	Not bright sun shine-cloudy sky-strong wind
29-7-34	0·20	...	29·2	5·94	,,	25·5	120·45	9·0	45·8	37·8	8·0	10·60	0·003	0·070	0·507	,,	,,	1	980	do
26-8-34	1·70	40·0	29·6	3·95	,,	26·4	43·31	9·1	25·0	20·6	4·4	4·95	Trace	0·042	0·179	,,	,,	5	940	do
30-9-34	1·05	...	29·0	3·22	,,	16·5	61·92	9·1	25·0	21·8	3·2	5·15	0·002	0·024	0·150	,,	,,	10	940	Bright sunshine-clear blue sky-slight wind.
28-10-34	7·20	19·0	26·2	3·41	,,	4·5	88·45	8·3	37·4	31·4	6·0	2·85	Trace	0·051	0·142	,,	,,	5	940	Not brightsun shine-cloudy sky-drizzling
17-11-34	13·32	96·0	26·6	5·38	,,	3·0	140·30	8·3	22·8	17·8	5·0	2·80	Trace	0·010	0·118	,,	,,	1	950	Not bright sunshine-cloudy sky-strong wind
22-12-34	13·30	204·0	25·6	5·36	,,	9·0	160·13	8·5	27·4	24·2	3·2	4·85	Trace	0·006	0·071	,,	,,	1	1,400	Bright sunshine-clear blue sky-strong wind

TABLE NO. VIII

Showing the Vertical and Seasonal Changes in Carbonic Acid–Sholavaram Lake. Near the Head Sluice. (Results expressed as Free CO_2, CO_3 and HCO_3 ion in milligrams per Litre 1934.

Date	21–1–34			25–2–34			11–3–34			30–3–34			29–4–34			20–5–34			25–6–34			29–7–34			26–8–34			30–9–34			28–10–34			17–11–34			22–12–34		
Time	11–25 A. M.			12 Noon			10–0 A. M.			11–0 A. M.			10–0 A. M.			9–45 A. M.			10–0 A. M.			9–20 A. M.			10–30 A. M.			9–50 A. .M			11–30 A.M.			12 Noon			10–0 A. M.		
Depth in Metres	Free CO_2	CO_3	HCO_3	Free CO_2	CO_3	HCO_3	Free CO_2	CO_3	HCO_3	Free CO_2	CO_3	HCO_3	Free CO_2	CO_3	HCO_3	Free CO_2	CO_3	HCO_3	Free CO_2	CO_3	HCO_3	Free CO_2	CO_3	HCO_3	Free CO_2	CO_3	HCO_3	Free CO_2	CO_3	HCO_3	Free CO_2	CO_3	HCO_3	Free CO_2	CO_3	HCO_3	Free CO_2	CO_3	HCO_3
0·0	1·98	Nil	129·6	Nil	12·0	122·0	Nil	13·5	117·4	Nil	18·0	106·7	Nil	27·0	68·6	Nil	22·5	68·6	Nil	18·0	73·2	Nil	25·5	12·.5	Nil	26·4	43·3	Nil	16·5	61·9	Nil	4·5	88·4	Nil	3 0	140·3	Nil	9·0	160·1
0·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Nil	21·0	70·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Nil	9·0	158·6
1·0	1·98	Nil	129·6	Nil	13·5	122·0	Nil	13·5	115·9	Nil	13·5	109·8	Nil	28·5	64·0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Nil	4·5	86·9	Nil	3·0	140·3	Nil	10·5	157·1
1·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Nil	4·5	86·9	Nil	3·0	140·3	...	...	...
2·0	1·98	Nil	129·6	...	...	...	Nil	13·5	118·9	Nil	21·0	102·2	Nil	28·5	65·6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Nil	3·0	85·4	Nil	3·0	137·3	Nil	10·5	155·5
2·5	...	...	...	Nil	13·5	122·0	...	...	...	...	...	...	Nil	27·0 (2.3m)	68·6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3·0	1·98	Nil	129·6	...	...	...	Nil	15·0	117·4	Nil	16·5	108·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Nil	3·0	140·3	Nil	9·0	160·1
3·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Nil	3·0	140·3	Nll	9·0	160·1
4·0	1·98	Nil	129·6	...	...	...	Nil	16·5 (4·2m)	114·4	Nil	15·0	112·8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Nil	3·0	142·4	...	...	...
4·5	1·98	Nil	129·6	Nil	12·0 (4·3m)	123·5	Nil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5·0	...		...	...	...	...	...	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

TABLE No. IX.

Vertical and Seasonal Changes in Temperature (°C)—Red Hills Lake, 1934.

Place *	A	A	B	A	A	A	A	C	B	D	E	F	A	A	A	A	A	A	A	A	A	A
Date	21-1-34	25-2-34	11-3-34	31-3-34	31-3-34	31-3-34	1-4-34	1-4-34	1-4-34	1-4-34	1-4-34	2-4-34	2-4-34	3-4-34	29-4-34	20-5-34	25-6-34	29-7-34	26-8-34	30-9-34	28-10-34	17-11-34	22-12-34
Time	1-15 P.M.	2-30 P.M.	1-30 P.M.	6-40 A.M.	10-50 A.M.	5-0 P.M.	9-15 A.M.	10-0 A.M.	2-35 P.M.	3-15 P.M.	4-5 P.M.	10-20 A.M.	4-22 P.M.	6-19 A.M.	1-0 P.M.	11-25 A.M.	11-40 A.M.	10-50 A.M.	11-0 A.M.	10-35 A.M.	12-40 P.M.	1-0 P.M.	11-55 A.M.
Depth in Metres.																							
0·0	26·4	28·8	31·4	28·9	30·9	30·7	29·3	29·4	31·0	31·0	31·4	30·0	30·1	29·6	32·6	31·1	29·4	29·8	30·4	30·8	27·9	27·0	26·4
0·5	...	28·3	31·0	28·8	30·4	30·2	28·9	28·6	31·0	30·4	30·6	29·5	29·7	2· 9	...	31·0	...	29·7	30·4	29·8	...	26·4	...
1.0	25·8	28·1	29·8	28·6	30·0	30·0	28·6	28·5	30·2	30·2	30·6	29·0	29·3	28·7	32·6	31·0	29·2	29·4	29·4	29·6	27·6	26·4	26·4
1·5	...	28·1	29·8	28·7	29·6	29·6	29·0	28·6	30·2	30·2	30·6	29·4	29·3	28·4	...	30·4	...	29·0	29·4	29·8	...	...	...
2·0	25·8	28·2	29·8	28·7	29·4	29·6	29·0	28·8	29·9	30·1	30·4	29·6	29·5	28·8	31·4	30·2	28·8	29·2	29·4	29·8	27·2	26·4	25·4
2·5	...	28·2	29·2	28·8	29·2	29·4	29·0	28·6	29·9	29·8	30·4	29·5	29·6	29·2	...	30·4	...	...	...	...	...	26·4	...
3·0	25·8	28·2	29·0	28·8	29·2	29·5	28·8	...	29·8	29·8	30·4	29·2	29·4	29·4	30·4	30·4	28·9	29·3	29·2	29·6	27·5	26·4	25·4
3·5	...	28·2	29·0	28·8	29·0	29·5	28·8	...	29·6	29·6	...	29·2	29·4	29·3	...	30·4	29·0	29·3	29·1	29·4	27·5	26·4	...
4·0	25·8	28·0	28·6	28·8	29·1	29·5	28·8	...	29·6	29·6	30·1	29·2	29·2	29·3	30·0	30·4	28·9 (4·1 m)	28·9	29·0	29·4	27·5	26·4	25·2
4·5	25·8	28·0	28·2	28·8	28·9	29·2	28·7	...	29·6	29·5	30·0	29·2	29·2	29·2	...	30·4	...	(3·8 m)	29·0	...	...	26·4	...
5·0	25·4	27·6	...	28·8	28·9	29·1	28·7 (4·8 m)	...	29·5	29·1	...	29·2	29·1	29·0	29·8	30·0	...	...	...	...	...	...	...
5·5	...	...	...	...	...	29·1 (5·2 m)	...	...	29·3	...	...	29·2	...	...	...	...	...	...	...	...	...	...	...
6·0	...	...	...	...	...	...	...	...	29 0	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* A About 200 ft. from Jones Tower and nearly midway between Jones Tower and the ruined buildings opposite to it.
B Middle of the lake i.e. midway between the Corporation Bungalow and Errakuppum Village on the opposite shore.
C About 25 ft. from shore and nearly midway between the shore and Jones Tower.
D In a line with the bungalow and Errakuppam Village and about a furlong from the shore on the opposite side.
E About 100 yards from the month of the supply channel.
F About 200 ft. from shore opposite to three vents sluice situated between Jones Tower and ten vents sluice.

TABLE No. X.

Showing the Vertical and Seasonal Distribution of Dissolved Oxygen in Red Hills Lake, 1934

Date.	21-1-34		25-2-34		11-3-34		31-3-34		31-3-34		31-3-34		2-4-34		2-4-34		3-4-34	
Time.	1-15 P. M.		2-30 P. M.		1-30 P. M.		6-40 A. M.		10-50 A. M.		5-0 P. M.		10-20 A. M.		4-22 P. M.		6-19 A. M.	
Place *	A		A		B		A		A		A		F		A		A	
Depth in Metres.	D.O. in CC/L	% Sat.	D.O. in CC/L	% Sat.	D.O. in CC/L	% Sat.	D.O. in CC/L	% Sat.	D.O. in CC/L	% Sat.	D.O. in CC/L	% Sat.	D.O. in CC/L	% Sat.	D.O. in CC/L	% Sat.	D.O. in CC/L	% Sat.
0·0 m.	5·82	98·6	5·64	98·6	5·16	...	5·04	88·9	5·29	96·4	5·65	102·6	5·22	93·7	5·50	98·9	4·92	87·8
0·5 „	...	...	5·64	98 6	...	...	5·04	88·8	...	...	...	...	...	...	5·50	98·4	4·99	88·0
1·0 „	5·80	97·3	5·50	97·3	5·32	95·2	4·90	86·0	5·29	95·0	5·60	100·6	5·29	93·5	5·47	97·1	4·95	87·1
1·5 „	...	...	5·50	97·3	...	...	5·00	87·9	...	...	...	...	...	...	5·47	97·1	4·92	86·1
2·0 „	5·80	97·3	5·48	95·6	5·32	95·2	5·04	88·6	5·09	90·5	5·47	97·6	5·22	93·1	5·47	97·4	...	...
2·5 „	...	...	5·40	94·2	...	...	5·00	88·1	...	...	...	...	...	...	5·54	98·8	4·88	88·0
3·0 „	5·80	97·3	5·40	94·2	5·46	96·5	5·04	88·8	5·09	91·8	5·25	93·6	5·22	94·2	5·41	96·2	...	...
3·5 „	...	...	5·40	94·2	...	...	5·04	88·8	...	...	...	...	...	...	5·47	79·5	4·99	88·6
4·0 „	5·80	97·3	5·34	92·9	...	...	4·97	87·5	5·22	92·4	5·35	95·3	...	...	...	...	...	...
4·5 „	5·80	97·3	5·28	91·8	4·98	86·9	4·97	87·5	...	...	...	...	5·29	95 5	4·68	84·4	4·92	88·8
5·0 „	5·60	93·3	5·20	90·0	(4·2m)	...	4·96	87·4	4·96	87.5	5·00	88·5	...	...	4·68	82·8	5·11	90·3
5·5 „	...	...	...	...	...	...	...	...	...	...	4·96	86·0	...	...	...	...	...	...

*For detailed descriptions, see Table No. IX

Table No. X—(Contd) showing the Vertical and Seasonal Distribution of Dissolved Oxygen in Red Hills Lake, 1934.

Date.	29-4-34.		20-5-34.		25-6-34.		29-7-34.		26-8-34.		30-9-34.		28-10-34.		4-11-34.		17-11-34.		22-12-34.	
Time.	1-0 P. M.		11-25 A.M.		11-40 A.M.		10-50 A.M.		11-0 A.M.		10-35 A.M.		12-40 P.M.		9-0 A. M.		1-0 P.M.		11-55 A.M.	
Place *	A		A		A		A		A		A		A		A		A		A	
Depth in Metres.	D.O. in CC/L	% Sat.	D.O. in CC/L	% Sat.	D.O. in CC/L	% Sat.	D.O. in CC/L	% Sat.	D.O. in CC/L	% Sat.	D.O. in CC/L	% Sat.	D.O. in CC/L	% Sat.	D.O. in CC/L	% Sat.	D.O. in CC/L	% Sat.	D.O. in CC/L	% Sat.
0·0 m	4·77	...	4·90	...	4·70	83·6	4·15	74·3	4·03	72·8	4·15	75·5	4·83	83·9	5·1	91·6	5·38	92·1	5·56	94·2
0·5 „	...	...	4·90	...	...	...	4·26	76·1	3·97	71·7	4·05	72·5	...	...	...	...	5·38	91·2	...	...
1·0 „	4·89	...	4.90	...	4·76	85·9	4·21	74·9	4·05	72·0	4·15	74·0	4·83	83·5	...	...	5·38	91·2	5·66	95·9
1·5 „	...	...	4·90	88·6	...	...	4·18	73·9	4·03	71·7	4·25	76·1	...	...	...	...	...	...	...	...
2·0 „	4·95	...	5.04	90·8	4·70	82·8	4·21	76·0	4·03	71·7	4·25	76·1	4·90	84·2	...	...	5·38	91·2	5·76	96·0
2·5 „	...	...	4·97	89·8	...	...	...	...	...	...	...	...	...	...	...	...	5·38	91·2	...	...
3·0 „	4·95	89·5	4·97	89·8	4·82	85·0	4·26	75·6	3·96	71·5	4·25	75·8	4·90	84·6	...	...	5·38	91·2	5·69	94·8
3·5 „	...	...	4.97	89·8	4·82	85·2	4·10	72·8	3·74	66·2	4·15	73·8	4·90	84·6	...	...	5·38	91·2	...	...
4·0 „	5·01	89·9	4·90	88·5	...	...	...	...	3·37	59·5	...	...	...	...	...	...	5·38	91·2	5·69	94·5
4·5 „	...	...	4·90	88·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5·0 „	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5·5 „	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* For detailed descriptions, see Table No. IX

TABLE XI.

Vertical and Seasonal Changes in Carbonic Acid (Results expressed as Free CO_2, CO_3, HCO_3 ions in mg per Litre,)
Red Hills Lake

Date.	21-1-34			25-2-34			11-3-34			31-3-34			31-3-34			31-3-34		
Time.	1-15 P. M			2-30 P. M.			1-30 P. M.			6-40 A. M.			10-50 A. M.			5-0 P. M.		
*Place	A			A			B			A			A			A		
Depth in Metres.	Free CO_2	CO_3	HCO_3	Free CO_2	CO_3	HCO_3	Free CO_2	CO_3	HCO_3	Free CO_2	CO_3	HCO_3	Free CO_2	CO_3	HCO_3	Free CO_2	CO_3	HCO_3
0·0	Nil	10·5	79·3	Nil	6·0	91·5	Nil	9·0	90·0	Nil	7·50	97·6	Nil	9·0	93·0	Nil	9·0	102·2
0·5	...	...	...	„	„	„	...	...	...	„	7·5	97·6	...	...	...	...	...	...
1·0	Nil	10·5	79·3	„	„	„	Nil	10·5	86·9	„	9.0	94·5	Nil	10·5	94·5	Nil	10 5	90·0
1·5	...	...	...	„	„	„	...	...	...	„	9·0	94·5	...	...	...	...	...	...
2·0	Nil	10·5	79·3	„	„	„	Nil	9·0	86·9	„	9·0	97·6	Nil	12·0	89·9	Nil	9·0	96
2·5	...	...	...	„	„	„	...	...	...	„	9·0	93·0	...	...	...	...	...	...
3 0	Nil	10 5	79·3	„	„	„	Nil	9·0	86·9	„	10·5	93·0	...	...	...	Nil	4·5	99·1
3·5	...	...	...	„	„	„	...	...	...	„	9·0	94·5	...	...	...	...	...	...
4·0	Nil	10·5	79·3	„	„	„	...	...	...	„	9·0	93·0	Nil	9·0	96·1	Nil	7·5	96·1
4·5	„	10·5	79·3	„	„	„	Nil	9·0	88·4	„	7·5	96·1	...	...	...	...	...	...
5·0	„	10·5	79·3	„	„	„	...	...	...	...	...	...	Nil	9·0	96·1	Nil	9·0	96·1
5·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Nil	9·0	94·5
6·0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	(5·2 m)	...

*For detailed descriptions see, Table No. IX

TABLE XI—(Contd)

Vertical and Seasonal Changes in Carbonic Acid (Results expressed as Free CO_2, CO_3 and HCO_3 ions in mg per Litre.) Red Hills Lake.

Date.	2-4-34.			2-4-34.			3-4-34.			29-4-34.			20-5-34.			25-6-34.			29-7-34.		
Time.	10-20 A.M.			4-22 P.M.			6-19 A.M			1-0 P.M.			11-25 A.M.			11-40 A.M.			10-50 A.M.		
*Place	F			A			A			A			A			A			A		
Depth in Metres.	Free CO_2	CO_3	HCO_3	Free CO_2	CO_3	HCO_3	Free CO_2	CO_3	HCO_3	Free CO_2	CO_3	HCO_3	Free CO_2	CO_3	HCO_3	Free CO_2	CO_3	HCO_3	Free CO_2	CO_3	HCO_3
0·0	Nil	6·0	99·1	Nil	12·0	88·4	Nil	7·5	97·6	Nil	10·5	94·5	Nil	9·0	99·1	Nil	12·0	103·7	Nil	13·5	102·2
0·5	...	...	...	Nil	12·0	85·4	Nil	6·0	100·6	...	...	...	Nil	13·5	93·0	...	...	...	Nil	13·5	100·6
1·0	Nil	9·0	97·6	Nil	12·0	88·4	Nil	7·5	97·6	Nil	10·5	93·0	Nil	10·5	96·1	Nli	12·0	96·1	Nil	13·5	99·1
1·5	...	...	...	Nil	10·5	88·4	Nil	7·5	96·1	...	...	...	Nil	12·0	96·1	...	...	...	Nil	15·0	97·6
2·0	Nil	7·5	96·1	Nil	12·0	88·4	...	...	...	Nil	10·5	97·6	Nil	10·5	94·5	Nil	13·5	96·1	Nil	13·5	100·6
2·5	...	...	...	Nil	13·5	85·4	Nil	7·5	99·1	...	...	...	Nil	12·0	94·5	...	...	...	...	...	...
3·0	Nil	7·5	99·1	Nil	12·0	85·4	...	...	...	Nil	10·5	93·0	Nil	12·0	94·5	Nil	13·5	94·5	Nil	13·5	100·6
3·5	...	...	...	Nil	10 5	86·9	Nil	6·0	97·6	...	...	...	...	...	...	Nil	12·0	96·1	Nil	12·0	108·3
4·0	...	...	...	...	...	...	...	...	...	Nil	10·5	93·0	...	...	...	...	...	...	...	...	...
4·5	Nil	7·5	99·1	Nil	7·5	114·4	Nil	7·5	97·6	...	...	...	Nil	12·0	94·5	...	...	...	...	...	...
5·0	...	...	...	Nil	7·5	114·4	Nil	9·0	96·1	...	...	...	...	...	...	...	...	...	...	...	...
5·5	Nil	7·5	100·6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6·0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* For detailed descriptions see Table No. IX

Table XI–(Contd)

Vertical and Seasonal Changes in Carbonic Acid (Results expressed as Free CO_2, CO_3 and HCO_3 ions in mg per Litre)

Date	26-8-34			30-9-34			28-10-34			4-11-34			17-11-34			22-12-34		
Time	11-0 A. M.			10-35 A. M.			12-40 P. M.			9-0 A. M.			1-0 P. M.			11-55 A. M.		
Place	A			A			A			A			A			A		
Depth in Metres	Free CO_2	CO_3	HCO_3	Free CO_2	CO_3	HCO_3	Free CO_2	CO_3	HCO_3	Free CO_2	CO_3	HCO_3	Free CO_2	CO_3	HCO_3	Free CO_2	CO_3	HCO_3
0·0	Nil	16.5	94·5	Nil	19·2	86·0	Nil	18·0	85·4	Nil	9·0	83·9	Nil	9·0	96·1	Nil	9·0	97·6
0·5	„	16·5	96·1	„	18·6	87·8	...	...	...	...	...	...	„	9·0	96·1	...	...	...
1·0	„	18·0	93·0	„	18·0	88·4	...	...	...	...	...	...	„	9·0	96·1	Nil	10·5	93·0
1.5	„	15·0	99·1	„	18 6	89·7	...	...	...	...	...	...	...	...	...	...	...	...
2·0	„	13·5	100·6	„	18·0	70·1	Nil	18·0	85 4	...	...	...	Nil	9·0	96·1	Nil	13·5	86·9
2·5	...	...	...	...	...	...	...	...	...	...	...	...	„	9·0	96·1	...	...	...
3·0	„	16·5	96·1	„	19·5	86·9	Nil	15·0	94·5	...	...	...	„	9·0	96·1	Nil	9·0	94·5
3·5	„	13·5	105·2	„	18·0	91·5	„	15·0	94·5	...	...	...	„	9·0	96·1	...	...	...
4·0	„	16·5	99·1	...	...	...	...	...	...	...	...	...	...	9·0	96·1	Nil	9·0	94·5
4·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5·0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6.0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

TABLE XII.

Hydrogen-ion Concentration Changes (pH) in Red Hills Lake, 1934.

Date.	21-1-34.	25-2-34.	11-3-34.	3-4-34.	29-4-34.	20-5-34.	25-6-24.	29-7-34.	26-8-34.	30-9-34.	28-10-34.	17-11-34.	22-12-34.
Time.	1-15P.M.	2-30P.M.	1-30P.M.	6-19A.M.	1-0 P.M.	11-25A.M	11-40A.M	10-50A.M	11-0A.M	10-35A.M	12–40P.M	1-0P.M.	11.55A.M.
Place*	A	A	B	A	A	A	A	A	A	A	A	A	A
Depth													
0·0 m	8·5	8·5	8·5	8·3	8·3	8·65	8·7	8·75	8·9	8·9	8·9	8·5	8·5
0·5 „	...	8·5	...	8·35	...	8·65	...	8·80	8·9	8·9	...	8·4	...
1·0 „	8·5	8·5	8·5	8·3	8·3	8·65	8·7	8·75	8·9	8·9	8·9	8·4	8·5
1·5 „	...	8·5	...	8·3	...	8·65	...	8·80	8·9	8·9	...	...	...
2·0 „	8·5	8·5	8·45	8·3	8·3	8·65	8·7	8·80	8·9	8·9	8·9	8·4	8·5
2·5 „	...	8·5	...	8·4	...	8·65	...	...	...	...	...	8·4	...
3·0 „	8·5	8·5	8·45	...	8·3	8·65	8·7	8·80	8·9	8·9	8·9	8·4	8·5
3·5 „	...	8·5	...	8·45	...	8·65	8·7	8·75	8·9	8·9	8·9	8·4	...
4·0 „	8·5	8·5	8·45 (4·2m)	...	8·3	8·65	...	...	8·9	...	...	8·4	8·5
4·5 „	8·5	8·5	...	8·45	...	8·65	...	...	...	...	...	...	...
5·0 „	8·5	8·5	...	8·45	...	8·65	...	...	...	...	...	...	...
5·5 „	...	...	...	...	...	...	...	...	...	...	...	...	...
6·0 „	...	...	...	..	...	...	...	...	...	...	...	...	...

* For detailed descriptions see Table No. IX

TABLE No. XIII.

Silicates (expressed as SiO_2 in mg per Litre)–Red Hills Lake, 1934.

Date.	21–1–34	25–2–34	11–3–34	3–4–34	29–4–34	20–5–34	25–6–34	29–7–34	26–8–34	30–9–34	28–10–34	17–11–34	22–12–34
Place *	A	A	B	A	A	A	A	A	A	A	A	A	A
Time.	1-15 p.m.	2-30 p.m.	1-30 p.m.	6-19 a.m	1-0 p.m.	11-25 a.m.	11-40 a.m.	10-50 a.m.	11-0 a.m.	10-35 a m.	12-40 p.m.	1-0 p.m.	11-55 a.m.
Depth in Metres.	1	2	3	4	5	6	7	8	9	10	11	12	13
0·0 m	16·0	14·0	11·2	11·4	12·0	14·3	24·0	14·0	13·0	15·0	12·0	14·0	14·5
0·5 „	...	14·0	...	12·3	...	14·0	...	18·0	13·0	17·0	...	14·0	...
1·0 „	16·0	14·0	12·5	12·3	11·0	14·5	20·5	23·0	13·0	15·0	12·0	14·0	14·5
1·5 „	...	14·0	...	12·5	...	13·5	...	15·0	13·0	15·0	...	...	...
2·0 „	16·0	14·0	13·0	...	15·0	13·8	17·0	14·0	13·0	15·0	12·0	14·0	14·5
2·5 „	...	14·0	...	12·5	...	13·8	...	...	...	...	...	...	...
3·0 „	16·0	14·0	12·0	...	15·0	...	17·0	14·0	13·0	15·0	12·0	14·0	14·5
3·5 „	...	14·0	...	12·5	...	...	17·0	14·0	13·0	18·0	12·0	14·0	...
4·0 „	16·0	14·0	...	...	16·0	...	...	...	13·0	...	...	14 0	14·5
4·5 „	16·5	14·0	14·0 (4·2 m)	12·5	16·0	...	...	...	...	...	...	...	...
5·0 „	16·0	...	...	12·5	...	...	...	...	...	...	...	...	...
5·5 „	...	...	...	...	...	...	...	...	...	...	...	...	...

*For detailed descriptions, see Table No· IX.

TABLE No. XIV.

Limnological Data for Red Hills Lake—Surface Water near Jones Tower, 1934.

Date of Collection.	Depth in feet.	Transparency in cms.	Temperature of Surface Water °C	Dissolved oxygen in cc per litre.	Milligrams per litre.			pH.	Results expressed in parts per 100,000.									Lactose fermenters present in ? c. c. and upwards.	Total colonies per c. c. on agar at 37° C after 48 hours.	Meteorological conditions.
					Free CO_2.	CO_3.	HCO_3.		Total Solids.	Fixed Solids.	Ignitible matter.	Combined Chlorine	Ammoniacal N.	Albuminoid N.	Absorbed Oxygen (Tidy's).	Nitric N.	Nitrous N.			
21-1-34	23·04	93·0	26·4	5·82	Nil	10·5	79·3	8·50	22·0	17·0	5·0	3·80	0·003	0·028	0·119	Nil	Nil	-60 cc	600	Not bright sunshine—cloudy sky—strong wind.
25-2-34	22·31	112·0	28·8	5·64	,,	6·0	91·50	8·50	21·0	16·0	5·0	4·05	Trace	0·036	0·129	do	do	20 cc	700	Bright sunshine-clear blue sky-slight wind.
11-3-34	21·71	60·0	31·4	5·16	,,	9·0	90·0	8·50	21·2	15·6	5·6	4·35	0·002	0·034	0·116	do	do	-60 cc	390	Bright sunshine—clear blue sky—no wind.
31-3-34	20·83	106·0	30·9	5·29	,,	9·0	93·03	...	...	...	...	...	Trace	0·040	0·142	do	do	...	...	Not bright sunshine-whitish blue sky no wind.
2-4-34	...	...	30·0	5·22	,,	6·0	99·13	...	...	...	...	...	...	...	...	do	do	...	...	Not bright sunshine-whitish blue sky-moderate wind.
3-4-34	...	...	29·6	4·92	,,	7·5	97·60	8·30	...	...	...	...	...	...	...	do	do	...	...	Not bright sunshine-cloudy sky-slight wind.
29-4-34	20·11	110·0	32·6	4·77	,,	10·5	94·55	8·30	20·8	16·6	4·2	4·70	Trace	0·036	0·139	do	do	20 cc	600	Not bright sunshine-whitish blue sky-slight wind.
20-5-34	19·62	96·0	31·1	4·90	,,	9·0	99·13	8·65	25·0	19 0	6·0	4·95	0·002	0·029	0·118	do	do	20 cc	520	Do. do
25-6-34	17·42	78·0	29·4	4·70	,,	12·0	103·70	8·70	25·6	20·2	5·4	5·35	0·002	0·032	0·144	do	do	1 cc	1,000	Not bright sunshine—cloudy sky—strong wind.
29-7-34	16·05	81·5	29·8	4·15	,,	13·5	102·18	8·75	27·2	22·4	4·8	5·80	Trace	0·061	0·179	do	do	10 cc	780	Not bright sunshine—white clouds slight wind.
26-8-34	16·44	76·0	30·4	4·03	,,	16·5	94·55	8·90	28·6	22·8	5·8	5·90	Trace	0·050	0·160	do	do	20 cc	840	Do. do
30-9-34	16·75	85·0	30·8	4·15	,,	19·2	86·01	8·90	26·8	21·0	5·8	5·70	0·003	0·061	0·174	do	do	20 cc	820	Bright sunshine—clear blue sky—no wind.
28-10-34	17·59	98·0	27·9	4·83	,,	18·0	85·40	8·90	29·8	23·2	6·6	5·65	Trace	0·054	0·155	do	do	5 cc	890	Not bright sunshine-cloudy sky-drizzling.
17-11-34	23·12	82·0	27·0	5·38	,,	9·0	96·08	8·50	21·0	16·4	4·6	4·10	Trace	0·042	0·118	do	do	1 cc	950	Not bright sunshine—cloudy sky—strong wind
22-12-34	22·98	84·0	26·4	5·56	,,	9·0	97·60	8·50	20·8	17·4	3 4	3·90	0·004	0·038	0·091	do	do	5 cc	820	Bright sunshine—clear blue sky—strong wind.

TABLE No. XV

Temperature, pH, Combined Chlorine, Dissolved Gases and Transparency of Raw Water drawn at the Kilpauk end of the Raw Water Conduit. (Results of Weekly Analysis.)

Date	Temperature of surfac water °C	Actual figure pH.	Combined Chlorine in parts per 100,000	Milligrams per Litre			Dissolved Oxygen in CC per Litre	Transparency in cms
				Free CO_2	CO_3	HCO_3		
3-1-34	25·9	8·1	3·85	Nil	1·5	91·50	5·43	85·0
9-1-34	25·9	8·1	3·80	,,	3·0	86·93	5·43	86·0
16-1-34	27·1	8·3	3·75	,,	7·5	79·30	5·34	83·0
23-1-34	25·6	8·1	3·75	,,	3·0	88·45	5·56	90·0
30-1-34	26·5	8·3	4·00	,,	6·0	85·40	5·15	88·5
Average	26·2	8·2	3·83	,,	4·2	86·32	5·38	86·5
6-2-34	27·4	8·1	3·95	,,	6·0	85·40	5·31	97·0
13-2-34	27·0	8·3	4·30	,,	9·0	79·30	5·18	99·0
20-2-34	27·5	8·3	4·05	,,	7·5	88·45	4·92	98·0
27-2-34	28·2	8·3	4·05	,,	6·0	91·50	4·89	112·0
Average	27·5	8·3	4·09		7·13	86·16	5·08	101·3
6-3-34	28·0	8·3	4·45	,,	7·5	91·50	5·00	113·0
13-3-34	29·6	8·3	4·35	,,	6·0	94·55	5·32	103·0
20-3-34	30·4	8·3	4·35	,,	6·0	97·60	4·65	104·5
27-3-34	30·1	8·3	4·35	,,	9·0	99·75	4·51	113·0
Average	29·5	8·3	4·375	,,	7·125	95·85	4·87	108·4
5-4-34	30·2	8·3	4·30	,,	7·5	91·50	4·61	104·0
17-4-34	30·0	8·3	4·50	,,	3·0	109·80	4·16	91·0
24-4-34	31·2	8·3	4·65		6·0	103·70	3·68	107·0
Average	30·5	8·3	4·48	,,	5·5	101·67	4·15	100·7
1-5-34	31·7	8·3	4·85	,,	6·0	103·70	4·65	104·0
8-5-34	31·2	8·3	4·85	,,	7·5	102·18	4·14	108·0
15-5-34	31·2	8·3	5·00	,,	7·5	102·18	4·02	119·0
22-5-34	31·2	8·3	5·15	,,	6·0	109·80	4·14	96·0
29-5-34	30·0	8·5	5·55	,,	6·0	109·80	4·12	97·0
Average	31·22	8·34	5·08	,,	6·6	105·33	4·214	104·8
12-6-34	29·6	8·5	5·25	,,	7·5	111·33	4·28	88·0

TABLE No. XV. (*contd.*)

Temperature, pH, Combined Chlorine, Dissolved Gases and Transparency of Raw Water drawn at the Kilpauk end of the Raw Water Conduit. (Results of Weekly Analysis.)

Date	Temperature of surface water °C	Actual figure pH.	Combined Chlorine in parts per 100,000	Milligrams per Litre			Dissolved Oxygen in CC per Litre	Transparency in cms
				Free CO_2	CO_3	HCO_3		
19-6-34	29·0	8 5	5·55		6·0	115·90	4·15	69·0
26-6-34	29·3	8·6	5·45	Nil	7·5	103·70	3·98	78·0
Average	29·3	8·53	5·42	„	7·0	110·31	4·14	75·0
3-7-34	28·6	8·5	5·55	„	7·5	114·38	4·13	86·0
10-7-34	29·3	8·5	5·35	„	10·5	120·48	5·00	80·0
17-7-34	29·5	8·5	5·85	„	12·0	99·13	3·97	83·0
24-7-34	30.0	8·5	5·80	„	9·0	108·28	4·00	85·0
30-7-34	29·2	8·7	5·65	„	9·0	108·28	3·66	87·5
Average	29·32	8·54	5·64		9·6	110·11	4·154	84·3
7-8-34	29·9	8·5	5·70	„	10·5	106·75	4·08	78·5
14-8-34	28·7	8·5	5·90	„	12·0	135·23	3·96	86·0
21-8-34	29·4	8·7	5·65	„	10·5	108·28	4·15	78·0
27-8-34	29·9	8·7	5·85	„	11·4	107·36	3·26	76·0
Average	29·48	8·6	5·78		11·1	106·91	3·863	79·63
4-9-34	30·4	8·7	5·55	„	12·0	102·18	3·79	83·0
13-9-34	29·8	8·7	5·75	„	10·5	109·80	3·89	81·0
18-9-34	30·7	8·6	5·95	„	10·5	103·70	3·44	93·0
25-9-34	30·0	8·7	5·55	„	13·5	100·65	3·92	98·5
Average	30·23	8·68	5·70	„	11·625	104·08	3·76	88·875
1-10-34	31·0	8·8	5·70	„	15 0	97·60	3·29	97·0
9-10-34	30·4	8·9	5·65	„	13.5	96·08	4·17	92·0
16-10-34	30·0	8·9	5 80	„	15.0	94·55	4·30	97·0
22-10-35	30·6	8·9	5·85	„	15·0	93·03	3·73	98·0
30-10-34	27·3	8 5	4·75	„	9·0	96·08	4·82	51·0
Average	29.86	8·8	5·55	„	13·5	95·47	4·06	87 0
9-11-34	28·2	8·4	3·90		1·5	100·65	4·15	66·0
13-11-34	27·1	8·0	3·90	2·2	Nil	120·50	4·44	84·0
19-11-34	26·7	8·3	4·20	„	6·0	86·93	4·75	100·0
27-11-34	25·0	8·5	4·10	„	4·5	99·13	4·15	100·0
Average	26·95	8·3	4·005	„	3·0	101·8	4·37	87·5
4-12-34	26·2	8·3	4·00	„	6·0	100·65	4·81.	100·0
11-12-34	26·2	8·4	3·90	„	7·5	103·70	4·93	92·0
18-12-34	25·6	8·5	3·90	„	9·0	99·13	4·92	83·0
Average	26.0	8·4	3·93	„	7·5	101·16	4·89	91·7

TABLE XVI.

Bacteriological Results—1934—Percentage Averages.

1934	Red Hills Lake.									Raw water Kilpauk end of R. W. Conduit.								Filtrates from beds.								Test Tap, Kilpauk Pumping Station.								Distribution System.							
Months.	Number of samples.	Total Colonies per c. c. on Nutrient Agar at 37°C.	Lactose fermenters in —60 c.c.	+60 c.c.	+20 c.c.	+10 c.c.	+5 c.c.	+1 c.c.	+0·1 c.c.	Number of Samples.	Total Colonies per c.c. on Nutrient Agar at 37°C	Lactose fermenters in —60 c.c.	+60 c.c.	+20 c.c.	+10 c.c.	+5 c.c.	+1 c.c.	+0·1 c.c.	Number of Samples.	Total Colonies on Nutrient Agar at 37°C	Lactose fermenters in - 60 c.c.	+60 c.c.	+20 c.c.	+10 c.c.	+5 c.c.	+1 c.c.	+0·1 c.c.	Number of Samples.	Total Colonies per c.c. on Nutrient Agar at 37°C.	Lactose fermenters in —60 c.c.	+60 c.c.	+20 c·c.	+10 c.c.	+5 c.c.	+1 c.e.	+0·1 c.c.	Number of Samples.	Total Colonies per c.c. on Nutrient Agar at 37°C.	Lactose fermenters in - 60 c.c.	+60 c.c.	+20 c.c.	+10 c.c.	+5 c.c.	+1 c.c.	+0.1 c.c.
January ...	4	875	25.0	25·0	25.0	...	...	25·0	...	5	880	...	...	...	40·0	60·0	...	...	28	541	3·6	28·6	32·1	25·0	14·3	...	...	21	202	85·7	14·3	...	...	...	...	...	6	612	...	...	66·6	16.7	16·7	...	...
February ...	1	700	...	...	100·0	...	...	...	...	3	687	...	...	...	66·6	33·4	...	...	34	579	14·7	14·7	11·8	14·7	35·1	9·0	...	20	200	95·0	5·0	...	...	...	...	...	4	385	...	75·0	25·0	...	...	...	...
March ...	3	617	33·4	...	33·3	...	33·3	...	...	5	712	...	...	40·0	40·0	20·0	...	...	34	508	8·8	26·4	29·4	8·8	23·6	...	...	22	218	81·8	18·2	...	...	...	...	...	2	510	...	...	100·0	...	...	...	...
April ...	2	600	...	50·0	50·0	...	...	...	...	4	748	...	...	...	50·0	50·0	...	...	27	584	...	14·8	29·6	14·8	37·0	3·8	...	19	297	52.6	42·1	5·3	...	...	...	...	9	428	11·1	33·3	44·5	...	11·1	...	...
May ...	3	640	...	...	33·4	33·3	...	33·3	...	4	710	...	...	25·0	25·0	50·0	...	...	41	575	...	19·5	26·8	19·5	26·8	7·4	...	21	262	61·9	38·1	...	...	...	...	...	12	525	...	33·3	41·7	16·7	8·3	...	...
June ...	1	1000	...	...	...	...	...	100·0	...	7	774	...	...	...	14·3	71·4	14·3	...	29	595	10·3	10·3	27·6	17·2	27·6	7.0	...	22	305	45·5	27·3	22·7	4·5	...	...	...	22	555	...	...	31·8	45·5	18·2	4 5	...
July ...	1	780	...	...	...	100·0	...	...	...	3	697	...	...	33·3	33·4	33·3	...	...	41	597	4·9	12·2	29·3	9·7	36·6	7.3	...	27	320	29·6	51·9	14·8	3·7	...	...	...	...	...	...	...	...	...	...	...	...
August ...	1	840	...	...	100·0	...	...	...	...	7	780	...	...	28·6	28·6	42·8	...	...	17	602	17·6	5·9	53·1	11·7	11·7	...	...	40	281	57·5	32·5	10·0	...	...	...	...	20	373	20·0	35·0	30·0	10·0	5·0	...	...
September ...	1	820	...	...	100·0	...	...	...	...	6	782	...	...	16·7	16·7	66·6	...	...	35	661	...	11·4	8·6	28·6	34·3	17·1	...	38	301	47·4	18·4	34·2	...	...	...	...	6	733	...	...	...	50·0	33·3	16·7	...
October ...	1	890	...	...	...	...	101·0	...	...	4	600	25·0	...	...	25·0	25·0	25·0	...	40	510	7·5	20·0	22·5	27·5	22·5	...	...	33	216	63·6	27·3	9·1	...	...	...	...	6	225	83·3	16·7	...	...	...	...	...
November ...	1	950	...	...	...	...	...	100·0	...	5	672	...	...	40·0	...	40·0	20·0	...	40	546	15·0	10·0	15·0	22·5	37·5	...	...	23	229	91·4	4·3	4·3	...	...	...	...	6	523	...	...	50·0	50·0	...	...	...
December ...	1	820	...	...	...	...	100·0	...	...	3	620	...	33·3	...	33·3	33·4	...	...	30	650	3·3	3·3	26·7	16·7	40·0	10·0	...	20	260	65·0	20·0	15·0	...	...	...	...	6	505	...	16·7	50·0	...	33·3	...	...
Average ...	2	794	4·9	6·3	36·8	11·1	19·4	21·5	...	5	722	2·1	2·8	15·3	31·1	43·8	4·9	...	33	579	7·1	14·8	26·0	18.1	28·9	5·1	...	26	258	64·8	25·0	9·6	0·7	...	...	...	8	448	9·5	17·5	36·6	15·7	10·5	1·8	...

Table No. XVII.—Showing the Chemical Results for 1934 (expressed in parts per 100,000)

1934	Red Hills Lake.			Raw Water, Kilpauk end of R. W. Conduit			Filtrates from Beds.			Test Tap, Kilpauk Pumping Station.			Distribution System.		
Months.	Ammoniacal Nitrogen.	Albuminoid Nitrogen.	Absorbed Oxygen	Ammoniacal Nitrogen.	Albuminoid Nitrogen.	Absorbed Oxygen.	Ammoniacal Nitrogen.	Albuminoid Nitrogen.	Absorbed Oxygen.	Ammoniacal Nitrogen	Albuminoid Nitrogen.	Absorbed Oxygen.	Ammoniacal Nitrogen.	Albuminoid Nitrogen.	Absorbed Oxygen.
January ...	0·002	0·025	0·103	0·002	0·033	0·127	0·002	0·026	0·094	0·004	0·026	0·079	0·004	0·028	0·074
February ...	Trace	0·025	0·114	0·001	0·031	0·128	0·003	0·030	0 105	00·02	0·025	0·085	Trace	0·026	0·075
March ...	0·002	0·028	0·111	Trace	0·036	0·119	0·002	0·030	0·110	0·003	0·027	0·087	Trace	0·034	0·086
April ...	0·001	0·028	0·136	Trace	0·037	0·130	0·001	0·030	0·112	0·002	0·028	0·090	0·003	0·025	0·079
May ...	0·002	0·026	0·133	0·002	0·037	0·139	0·004	0·031	0·119	0·002	0·028	0·094	0·001	0·025	0·092
June ...	0·002	0·032	0·144	0·002	0·033	0·146	0·004	0·037	0·122	0·002	0·032	0·107	0·001	0·032	0·102
July ...	Trace	0·061	0·179	0·001	0·049	0·168	0·002	0·038	0·141	0·002	0·035	0·122	...	...	...
August ...	Trace	0·050	0·160	Trace	0·045	0·172	0·005	0·041	0·150	0·003	0·033	0·122	0·005	0·035	0·118
September ...	0·003	0·061	0·174	Trace	0·050	0·169	0·002	0·041	0·141	0·003	0·039	0·117	0·003	0·033	0·119
October ...	Trace	0·054	0·155	Trace	0·054	0·148	0·002	0·050	0·127	0·001	0·046	0·110	Trace	0·040	0·088
November ...	Trace	0·042	0·118	0·001	0·044	0·131	0·001	0·035	0·106	Trace	0·035	0·082	Trace	0·040	0·077
December ...	0·004	0·038	0·091	0·003	0·040	0·149	0·002	0·036	0·113	0·002	0·031	0·094	0·002	0·032	0·092
Average ...	0·001	0·039	0·135	0·001	0·041	0.144	0·003	0 035	0·120	0·002	0·032	0·099	0·002	0·029	0·084

Taale XVIII showing the length of runs of filters at work during 1934.

Bed No.	Total number of runs during the year.	Total number of days	Average number of days per run.	Remarks.
1	14	243	17·4	
2	11	217	19·7	
3	13	227	17·5	
4	13	228	17·0	
5	8	258	32·3	
6	8	224	28·0	
7	13	221	17·0	
8	12	210	17·5	
9	13	221	17·0	
10	13	226	17·4	
11	13	225	17·3	
12	13	224	17·2	
13	12	205	17·1	
14	7	232	33·1	

Table XIX showing the quantity of water filtered during 1934.

Bed No.	Quantity of water in million gallons filtered at		Total quantity of water filtered in million gallons.	Remarks.
	8″	12″		
1	192·0	434·0	626·0	
2	191·0	349·5	540·5	
4	168·0	399·0	567·0	
4	193·0	384·0	577·0	
5	195·3	462·0	657·3	
6	133·0	459·5	592·5	
7	160·0	405·0	565·0	
8	192·0	328·5	520·5	
9	155·5	430·0	585·5	
10	184·0	385·0	569·0	
11	169·0	408·0	577·0	
12	169·0	407·5	576·5	
13	158·7	373·5	532·2	
14	155·0	452·0	607·0	
	2,415·5	5,677·5	8,093·0	

Table XX showing the applied dose of Chlorine for Filtered Water.

1934	Applied dose-parts per million.	Remarks.
January ...	1·00	
February ...	0·75	
March ...	0·75	
April ...	0·75	
May ...	0·75	
June ...	0·75	
July ...	0·75	
August ...	1·00	
September ...	1·00	
October ...	0·84	
November ...	1·04	
December ...	1·00	
Average ...	0·87	

TABLE No. XXI.

Percentage Reduction of Organic matter (Tidy's 4 hours' test) at different stages of the Water Purification System, 1934.

Month.	Raw water Kilpauk end.	Filtrates from beds.		Test Tap on the rising Main at the Pumping Station.		Service Taps in the distribution System.	
	A. O.	A. O.	% Reduction over R. W.	A. O.	% Reduction over R. W.	A. O.	% Reduction over R. W.
January ...	0·127	0·094	26·0	0·079	37·8	0·074	41·7
February ...	0·128	0·105	18·0	0·085	33·6	0·075	41·4
March ...	0·119	0·110	7·6	0·087	26·9	0·086	27·7
April ...	0·130	0·112	13·8	0·090	30·8	0·079	39·2
May ...	0·139	0·119	14·4	0·094	32·4	0·092	33·8
June ...	0·146	0·122	16·4	0·107	26·7	0·102	30·1
July ...	0·168	0·141	16·1	0·122	27·4	...	...
August ...	0·172	0·150	12·8	0·122	29·1	0·118	31·4
September ...	0·169	0·141	16·6	0·117	30·8	0·119	29·6
October ...	0·148	0·127	14·2	0·110	25·7	0·088	40·5
November ...	0·131	0·106	19·1	0·082	37·4	0·077	41·2
December ...	0·149	0·113	24·2	0·094	36·9	0·092	38·3
Average ...	0·144	0·120	16·7	0·099	31·3	0·084	41·7

A. O.-Absorbed Oxygen expressed in parts per 100,000.

Annual Report on the working of the Child Welfare Scheme, Corporation of Madras for the year 1934.

In submitting the annual report on the working of the Child Welfare Scheme in the City of Madras, I have great pleasure in recording the steady progressive work of yet another year, although the path of such work in this city has not been free of thorns. The growth in popularity of the Scheme and the increase in all sections of it are tangible proofs of its success, and the ever increasing demand on its services is the best evidence that can be adduced.

Staff:—There were 13 Lady Doctors, 82 Midwives and 24 Health Visitors.

Work of the Staff:—During the year under report 14,451 cases of labour *i. e.*, 51·3% of the total births in the City came under the care of the Child Welfare Scheme. Of these 12,257 cases were actually conducted by the midwives of the Scheme, 1162 cases were taken over by the Child Welfare staff after barber-women had conducted the labour, and 1032 cases were sent to various hospitals (vide statement No. 1). The total number of visits paid by the Lady Doctors was 14,171. They also treated 4859 morbid cases. The total number of women and children treated at the out patient clinic was 2,52,885. The average daily attendance was 692·8 (vide statement No. III).

Antenatal Work:—The total number of pre-maternity cases registered was 10,468 at the various centres for disorders of ailments of pregnancy when they attended the Centres for antenatal advice and treatment. People have yet to learn that early registration of pregnancy saves the mother and the baby from many a danger. Cases suffering from serious constitutional diseases such as heart-disease, tuberculosis and advanced anaemia were sent to hospitals before delivery whenever the patients consented.

Health Visitors:—The work of the Health Visitor is the pivot on which all Child Welfare work turns. There has been a fall in the number of Health Visitors. Some have resigned as the pay fixed for Health Visitors in the Corporation is lower than the Government scale of pay.

In Madras City, the Health Visitors have proved of great use and indeed without them, the scheme could not have advanced as it has done. Their service is most needed in Madras where the light which dispels ignorance and brings health and happiness in many home is greatly lacking. Indeed those who understand the true nature of Child Welfare work will know how largely it consists of educative work in the homes of the people. They have to inspire confidence and wage continual warfare in the strongholds of ignorance and superstition in order to convince the women folk of the benefits of modern medical treatment of pregnancy and child-birth. The Health Visiting staff claims the largest share in the steady success achieved year after year by the Scheme. I would urge the Corporation the imperative necessity for raising the strength of the staff to 30 so that at least one Health Visitor can devote her whole time and attention to Health Visiting in each municipal division. One Health Visitor is necessary for every 500 births. I would therfore earnestly request the Council to consider the proposal favourably.

As already pointed out, owing to the shortage of staff, it was not possible for Health Visitors to undertake regular Home visiting of all infants born in the City. 11,822 pre-maternity cases were registered by Health Visitors in all the Centres. 175,261 visits were paid by them in the homes of the people (vide statement No. II).

Maternity Service:—So far as the Maternity service was concerned, some difficulty was experienced at the beginning to give effect to the rule that the scheme should not render service to people whose income is more than Rs. 50. But the citizens know the rule and there is not much trouble now. But still some difficulty is experienced with regard to booked cases. Out of a total of 11,822 cases registered by Health Visitors, 10,468 cases are booked cases. In spite of repeated instructions to the public that Corporation maternity service will not be available to such pregnant woman as have not taken care to register themselves in time (*i. e.*,) at least one month before the date of confinement, some have not observed the rule.

Maternal Mortality:—Out of a total of 14,451 cases which came under the observation of the scheme, there were 50 cases of Maternal Mortality of which 35 occurred among complicated cases sent to hospitals, 3 handed over to private doctors, 8 under vydiars and 1 under barber woman. Only 3 cases of death took place among those treated by the scheme. This gives a percentage of ·34

Infantile Mortality:–14,948 babies which came under the observation of the Child Welfare Scheme in 1933 were actually born during the said year. Of these 501 were still births and 14,447 were live births which were kept under the observation of the scheme during their first year of life (*i. e.*,) during 1934. 2,223 babies left the City or were otherwise not traceable. The mortality among the live births was 2126. This gives an infantile mortality of 142·2 per mille. (Vide Statement No. VII.)

Milk Supply:—479 babies received free milk supply during the year. Free milk is given to babies needing artificial feeding and such babies are selected with great care. Under no circumstances is milk given to babies whose parents are not poor, nor is poverty the only condition for the free distribution of milk. Among the poor babies, all those who come under the following classes are selected :—

1. Motherless.

2. Twins and triplets.

3. Poor and ill nourished.

4. Babies whose mothers suffer from breast abscess and from grave constitutional diseases like anaemia, tuberculosis, heart disease etc , where breast feeding is contraindicated or impossible.

5. Babies of destitute mothers who do not have sufficient milk owing to want of nourishment.

The milk after pasteurization is distributed to infants. The milk is diluted according to the age of infants. Two centre feeds are given, one in the morning and another in the evening and the rest of the milk is allowed to be taken home. The babies are weighed every fortnight.

Baths :—Duing the year 78,437 babies were given warm baths. The mothers are taught under the supervision of the Health Visitor how to give baths to their babies. (Vide statement No. X.)

In the City of Madras there are numerous slums where water supply is inadequate and sanitary conditions unsatisfactory and to the children living in such slums, a warm bath with soap is a luxury. In such circumstances a mere talk on personal cleanliness of babies is ineffective. Baths in the centres are object lessons to the illiterate and ignorant

mothers and at the same time they serve to promote the health of the babies who are brought up under most trying unhygienic conditions.

Ambulance Car :—The total number of calls answered by the ambulance car was 319.

Health Propaganda :—581 lectures were delivered at the various Child Welfare Centres. Of these 257 lectures were delivered with the aid of Magic lanterns, 20 lectures with cinema and 304 were outdoor lectures. The total attendance was 25,159.

Divisional Health Exhibitions were held in the 21st division and at South Indian Athletic Association Grounds where there was Park Fair during the year under review. The public participated in these exhibitions by attending in large numbers. The day set apart for ladies was particularly popular.

The Lady Doctors on the whole have been doing work which deserves appreciation, educating the indigent and illiterate mothers. They got into the heart of slums and gave talks on hygiene and on various subjects relating to Maternity and Child Welfare in addition to cinema and magic lantern lectures given by them in the centres.

Conclusion:—The care and preservation of the lives the young as well as the education and protection of the mother in this City ought to be continued, not only systematically, but also more intelligently and sympathetically understanding the peculiar social customs and habits of various communities among whom the work is spreading. What may be suitable and necessary for one nation or community may be unsuitable and useless for another.

Though Welfare work is essentially preventive in a country like this where literacy among women is low and the economic standard poor, medical advice ought at times to be combined with actual treatment for achieving an adequate measure of success.

Madras.
11-5-1935.

H. V. KAMALAMMAL,
ag. Lady Superintendent
Child Welfare Scheme.

STATEMENT No. I

Statement showing the cases of labour which came under the observation of the staff of the Child Welfare Scheme from 1st January to 31st December 1934.

Centres.	How conducted.			Total Cases.	Caste.		Remarks.
	By nurses of the C. W. S.	Taken over after barber women conducted labour.	Taken to hospitals.		Muhammadan.	Non-Muhammadan.	
Triplicane ...	1,584	98	26	1 708	790	918	
Washermanpet...	1,230	114	123	1.467	238	1,229	Including 15 twins & 2 triplets.
Purasawalkam ...	1,024	58	72	1,154	41	1,113	
George Town ...	1,557	152	133	1,842	68	1,774	
Nungambakkam...	379	117	42	538	58	480	
Mirsahibpet ...	1,258	103	67	1,428	251	1,177	
Muthialpet ...	1,017	69	126	1,212	307	905	
Royapuram ...	972	55	95	1,122	123	999	Including 10 twins.
Perambure ...	996	85	110	1,191	288	903	
Egmore ...	699	128	76	903	68	835	
Royapettah ...	477	96	80	653	67	586	
Choolai ...	1,064	87	82	1,233	56	1,177	
Total ...	12,257	1,162	1,032	14,451	2,355	12,096	

STATEMENT No. II

Number of Visits paid by the Staff of the child welfare scheme during the year 1934.

Centres.	Visits paid by			Total.
	Midwives.	Health Visitors.	Lady Doctors.	
Triplicane ...	18,632	18,239	1,235	38,106
Washermanpet ...	16,245	13,412	1,166	30,823
Purasawalkam ...	14,419	30,283	1,166	45,868
George Town ...	20,823	13,598	1,157	35,578
Nungambakkam ...	10,616	8,173	1,262	20,051
Mirsahibpet ...	16,244	17,838	1,265	35,347
Muthialpet ...	12,572	16,626	1,325	30,523
Royapuram ...	12,187	8,928	1,135	22,250
Perambure ...	13,458	11,115	1,378	25,951
Egmore ...	9,587	7,642	994	18,223
Royapettah ...	8,560	9,165	1000	18,725
Choolai ...	14,166	20,242	1088	35,496
Total ...	1,67,509	1,75,261	14,171	3,56,941

STATEMENT No. III.

Table showing the total attendance of children & mothers at the Child Welfare centres during 1934.

From 1st January to 31st December 1934.	Age.			Total new attendance	Nature of diseases.									Total attendance for the year.	Pregnant women treated at the Centres.	Average daily attendance.
	Under 1 year.	1 to 5 years.	Women.		Respiratory.	Alimentary.	Skin affection.	Influenza.	Ear & eye diseases.	Malaria.	Syphilis.	Anaemia.	Other causes.			
Triplicane ...	3266	2325	3843	9434	2022	1876	740	855	671	698	...	1275	1297	29489	1143	80·1
Washermanpet ...	2511	1133	3780	7424	955	1627	569	239	440	268	6	394	2926	17694	673	48·5
Purasawalkam ...	2390	2120	3610	1263	1263	1591	561	731	510	514	44	870	2036	21473	1150	58·8
George Town ...	3651	1269	7070	11990	1281	1106	970	154	960	823	16	796	5884	31441	1636	86·6
Nungambakam ...	2035	1935	2277	6247	1159	924	939	531	661	366	...	356	1311	18341	387	50·0
Mirsahibpet ...	3125	1895	5177	10197	1694	2721	449	670	177	55		211	4220	29788	1213	81·0
Muthialpet ...	2682	1227	3477	7386	465	2093	394	351	159	301		146	3397	26218	1069	72·10
Royapuram ...	2236	1638	3038	6912	1442	2421	415	74	126	401	2	102	1929	13374	790	38·0
Perambure ...	2919	2077	2980	7976	728	2960	590	257	455	156	17	66	2747	20676	758	59·3
Egmore ...	1667	1334	2413	5414	1506	916	755	364	220	410	...	336	907	12652	758	34·0
Royapettah ...	730	1651	1721	4102	1080	860	455	236	122	31		71	1247	12480	410	34·1
Choolai ..	2143	950	3424	6517	1691	1921	341	343	148	55		14	2004	18759	880	51·3
	29355	19554	42810	84862	15286	21016	7178	4805	4649	4158	85	4637	29905	252885	10867	692·8

STATE

Pre-maternity cases registered and diseases and

Centres.	Constipation	Anaemia.	Malaria.	Albuminuria.	Worms.	Bronchitis.	Dysentery	Influenza.	Diarrhœa.	Retention of urine.	Torpid liver.	Oedema and swelling.	Fever.	Skin affections.	Syphilis.	T. P.	V. D H.	Rheumatism.	Otorrhoea.	Jaundice.	A. P. H.	Pneumonia.	General anasarca.	Asthma.
Triplicane	421	123		102	2	50	14	22	19	89		25	21	4	1	1	8	1	3				2	4
Washermanpet	182	101	8	45		40	16	15	60			28	12	5	2	2	22	24	1	2	2		11	3
Purasawalkam	502	111		86		57	34	8	23	29		16	22		4	2	4	26			1	1		1
George Town	259	97	49	85		75	57	35	29	15		41	52	29		4	6	12	15	2		10		8
Nungambakam	134	35	4	2	2	37		37	14				3	6										
Mirsahibpet	566	7		3		42	35	19	7			7	5	2							4	1	3	
Muthialpet	215	110	33	47	121	53	4	11	13		4	16		20		1	4		1	1	2		22	
Royapuram	610	48	7	24		50	9	1	4			1	1	4										1
Perambure	378	19	5	72		62	17	22	10			4		6	8		3		3				4	1
Egmore	428	75	3	91	3	52	12	3	9			3	10	3		1								1
Royapettah	135	48	1	24	2	41	5	13	2				4	7		2	3							4
Choolai	318	25		55		29	17	3	5	6		1	13	2			10	13						1
	4148	799	110	636	130	588	220	189	195	139	4	142	143	88	15	13	60	76	23	5	9	12	42	24

STATE

Maternal Morbidity

Centres.	Anaemia.	Albuminuria.	Malaria.	V. D. H.	Bronchitis.	Dysentery.	Influenza.	Typhoid.	Retained membrane.	Adherent placenta.	Retained placenta.	Eclampsia	Pneumonia.	T. P.	Ulcerated vagina.	Retention of urine.	Syphilis.	Asthma.	Diarrhoea	Jaundice.	Indigestion.	Gastritis.
Triplicane ...	199	68	28	3	46	21	22	...	3	4	4	6	...	2	49	35	...	3	26	...	...	9
Washermanpet ...	169	11	9	17	19	8	...	...	...	...	...	...	...	5	...	1	3	3	10	17	4	3
Purasawalkam ...	49	67	32	12	40	23	...	...	1	2	...	5	1	7	24	37	1	5	29	2	36	8
George Town ...	49	23	27	3	13	23	...	2	...	2	...	5	...	...	...	11	...	4	23	...	...	16
Nungambalkam ...	32	1	1	1	28	...	14	...	1	...	...	...	...	...	1	8	...	2	...	...	29	...
Mirsahibpet ...	35	...	...	...	3	9	...	...	1	1	1	2	...	14	...	...	...	...	2	...	...	...
Muthialpet ...	22	126	21	1	14	4	7	1	...	1	2	11	1	1	...	...	...	...	4	...	...	...
Royapuram ...	16	2	6	1	5	4	2	1	2	3	...	...	...	...	...	...	...	...	5	...	...	...
Perambure ...	13	7	6	...	18	7	6	...	6	...	4	3	3	...	8	8	2	2	4	2	1	...
Egmore ...	141	55	2	...	50	10	7	1	...	...	...	...	...	...	...	...	...	...	5	...	3	13
Royapettah ...	29	3	3	...	16	6	5	1	...	...	...	...	...	...	1	...	...	2	3	1	2	...
Choolai ...	...	...	1	2	2	5	...	...	1	...	...	2	...	...	...	...	...	...	...	...	...	...
Total ...	754	363	136	40	254	120	63	6	15	13	11	34	5	29	83	100	6	21	111	22	75	49

MENT No. IV.

ailments of Pregnancy treated at the Centres in 1934.

Breast abscess.	Gastritis.	Conjunctivitis.	Flatulence.	Enteritis	Stranguary Leucorrhoea,	Morning sickness.	Gonorrhoea.	Stomatitis	Threatened abortion.	Bleeding.	Eclampsia.	Dyspepsia	Scanty urine.	Cough	Piles.	Neurities.	Indigestion.	Debility.	Mastitis.	Enlarged spleen.	Ulcerated Vulva.	Cystitis.	Ring worm.	Leucorrhoea.	Normal.	Other diseases.	Total.	Total of pre-maternity cases registered.
3						22		50				96			4						1					55	1143	1488
6	4		3				5	56					65				7										673	731
	8	7	6	3	10	33		69		2		20	60	5													1150	1185
2	43	3				56		89				19			8					23		9	6		99		1237	1520
	4							36				20	53														387	581
2					6	2		41				312	124		1	5		11						1	2	5	1213	1002
		1	32		4			135	2			6	43		1		7	46	4	3	3			9	29	66	1069	1127
	5					2		5		3		1	8						3							3	790	656
			2				9	43			2	13	75														758	711
2								62																			758	697
								32				42	34											2		9	410	565
		1		6	1			24				187	155											2		6	880	1559
15	64	12	43	9	21	115	14	642	2	5	2	716	617	5	14	5	14	57	7	26	4	9	7	15	128	144	10,468	11,822

MENT No. V.

(Puerperal) 1934.

Constipation.	Worms.	Mastitis and Breast abscess.	Septicaemia	A. P. H.	P. P. H.	Skin disease.	Stomatitis.	Sepsis.	Neuritis and Sciatica.	Ulcerated Vulva.	Fever and Hyperpyrexia.	After pains.	Piles.	Rheumatism.	G. Conjunctivitis.	Perinium tear.	General anasarca.	Hysteria.	Debility.	Other diseases.	Total.
129	...	8	...	4	3	38	54	...	...	28	32	62	...	...	...	...	...	...	...	99	985
65	...	4	...	...	...	...	31	...	26	...	15	61	1	8	...	...	...	...	55	17	562
161	17	25	1	5	5	36	60	3	...	13	47	93	1	8	14	...	...	...	...	19	889
51	...	4	...	...	...	7	22	...	...	19	13	39	7	...	...	...	...	...	...	9	372
46	...	...	...	...	...	16	24	...	...	...	5	...	...	...	...	...	...	...	27	12	248
2	...	...	...	1	1	1	1	...	...	...	36	4	...	...	...	...	4	...	...	9	127
...	...	6	...	3	1	1	38	...	...	...	2	31	1	...	...	...	...	...	28	18	345
...	...	1	...	...	2	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	52
32	1	10	2	1	5	21	9	6	...	2	18	29	...	3	4	...	...	...	...	...	243
137	1	...	...	...	...	...	...	...	...	...	...	283	...	...	...	...	...	...	...	...	708
16	4	1	...	...	...	3	13	1	...	2	8	23	...	...	...	...	...	3	10	9	165
...	...	...	...	...	...	...	...	...	...	...	124	...	...	...	...	26	...	...	...	...	163
639	23	59	3	14	17	123	252	10	26	64	302	625	10	19	18	26	4	3	120	192	4859

STATEMENT No. VI.

A

Maternal Mortality (Puerperal) among cases treated by Child Welfare Scheme for 1934.

Centres.	V. D. H.	Eclampsia	Shock.	Tetanus.	Small-pox.	P. P. H.	Anaemia	Total.
Triplicane	...	...	...	...	...	...	...	...
Washermanpet	...	...	...	...	...	...	...	...
Purasawalkam	...	...	...	...	...	1	...	1
George Town	1	...	...	...	...	...	...	1
Nungambakam	...	...	...	...	...	...	...	...
Mirsahibpet	...	...	...	...	...	...	...	...
Muthialpet	...	...	...	...	...	...	...	...
Royapuram	...	...	...	...	...	...	...	...
Perambure	...	...	...	..	...	...	1	1
Egmore	...	...	...	...	...	...	...	...
Royapettah	...	...	...	...	...	...	...	...
Choolai	...	...	...	...	...	...	...	...
Total ...	1	...	...	...	...	1	1	3

B

Deaths among cases brought to the notice of the Child Welfare Scheme in 1934 but not under our treatment.

	Triplicane	Washermanpet	Purasawalkam	George Town	Nungambakkam	Mirsahibpet	Muthialpet	Royapuram	Perambure	Egmore	Royapettah	Choolai	Total.
1. In Hospital ...	...	4	7	4	1	...	2	2	3	3	6	3	35
2. Under private Doctors ...	...	1	...	2	...	...	...	...	...	...	...	...	3
3. Under Vydian's treatment ...	...	4	...	...	1	...	2	...	...	...	1	...	8
4. Under Barber women ...	...	...	...	...	...	...	...	...	1	...	...	...	1
Total ...	...	9	7	6	2	...	4	2	4	3	7	3	47

STATEMENT No. VI—Contd.

C

Showing the causes of death among cases brought to the notice of Child Welfare Scheme but not under our treatment in 1934.

Centres.	Eclampsia	Adherent placenta	A. P. H.	V. D. H.	Anaemia	Tub. enteritis	Septicaemia	Pneumonia	Gen. anasarca	Fever	Causes unknown	Other diseases	Dysentery	Albuminuria	Total
Triplicane ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—
Washermenpet ...	2	...	...	2	...	2	...	...	...	2	...	1	...	...	9
Purasawalkam ...	2	...	1	1	...	...	...	...	...	1	...	2	...	...	7
George Town ...	...	1	...	2	1	...	...	1	...	...	...	...	...	1	6
Nungambakkam ...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	2
Mirsahibpet ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—
Muthialpet ...	1	...	...	...	1	...	...	...	...	...	...	1	...	1	4
Royapuram ...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Perambure ...	...	1	...	...	...	...	1	1	...	...	1	...	...	...	4
Egmore ...	...	...	...	...	...	...	...	...	...	...	...	3	...	...	3
Royapettah ...	...	...	2	...	...	...	...	...	2	1	...	1	1	...	7
Choolai ...	...	...	...	1	...	...	...	...	...	...	...	2	...	...	3
Total ...	7	2	3	6	2	2	1	2	2	4	1	12	1	2	47

A total of 50 deaths occured among the 14,451 labour cases which came under the observation of the Child Welfare Scheme. Maternal Mortality rate for all deaths among cases brought to the notice of the Scheme is ·34 per cent.

Maternal Mortality rates for the child welfare scheme for:—

1934——— ·34 per cent
1933——— ·31 „
1932——— ·41 „
1931——— ·61 „
1930——— ·49 „

STATEMENT No. VII.

Ages at death of infants born during 1933 and kept under observation during the 1st year of life.

From 1st January to 31st December 1934.	Total Infants born in 1933.	Still born.	Died within				Total deaths excluding still births.	Left city or otherwise not traceable.	Number of living children traceable when one year old.
			10 Days.	1 to 3 Months.	3 to 6 Months.	6 to 12 Months.			
Triplicane ...	1725	41	51	49	56	71	227	439	1018
Washermanpet ...	1459	50	62	31	42	86	221	221	967
Purasawalkam ...	1180	36	35	41	29	52	157	162	825
George Town ...	1960	69	91	52	58	82	283	168	1440
Nungambakam ...	572	15	8	21	20	21	70	84	403
Mirsahibpet ...	1352	65	46	46	31	59	182	79	1026
Muthialpet ...	1268	43	43	41	52	72	208	269	748
Royapuram ...	1130	45	65	22	35	64	186	313	586
Perambure ...	1237	52	37	27	22	44	130	230	825
Egmore ...	1084	26	24	16	32	65	137	109	812
Royapettah ...	752	23	18	20	15	29	82	69	578
Choolai ...	1229	36	36	79	45	83	243	80	870
Total ...	14,948	501	516	445	437	728	2,126	2,223	10,098

		For infants under the care of child welfare scheme.	City rate.
Infantile Mortality rate for	1934	142·2 per mille	228·2
do	1933	142·7 do	264·3
do	1932	131·3 do	236·5
do	1931	134·9 do	248·3
do	1930	139·5 do	243·9

STATEMENT No. VIII.

Causes of Death among infants born in 1933 and kept under observation during the 1st year of life.

Centres.	Total Infants born in 1933.	Still born.	Died within 10 days.	Pneumonia.	Abscess.	Enteritis.	Small pox.	Bronchitis.	Malnutrition.	Malaria.	Convulsion.	Whooping cough.	Skin diseases.	Chicken-pox.	Fever.	Drugged with native medicine	Dysentery.	Constipation	Rickets	Gastrities.	Causes unknown	Measles.	Jaundice.	Diarrhoea.	Cholera	Debility.	Mumps	Cough.	Total deaths	Left City and not traceable.	No. of living children traceable when one year old.
Triplicane ...	1725	41	51	5	...	...	6	5	4	...	11	2	10	...	87	...	3	...	1	...	1	...	...	41	...	...	...	...	227	439	1018
Washermanpet ...	1459	50	62	...	11	8	10	5	...	...	23	6	1	...	48	5	12	7	...	...	47	...	...	38	...	...	...	...	221	221	967
Purasawalkam ...	1180	36	35	11	3	24	5	11	3	...	10	4	3	1	37	1	1	...	...	...	35	...	...	8	...	...	...	...	157	162	825
George Town ...	1960	69	...	22	6	11	9	46	...	...	33	10	2	1	26	24	23	20	1	...	13	...	...	36	...	...	...	...	283	168	1440
Nungambakam ...	572	15	8	1	...	...	3	21	...	...	2	...	...	...	20	...	...	...	...	...	8	...	...	7	...	...	...	...	70	84	403
Mirsahibpet ...	1352	65	...	16	2	18	5	7	...	...	23	...	...	...	51	...	...	1	...	...	10	...	...	5	2	42	...	...	182	79	1026
Muthialpet ...	1268	43	43	10	...	34	2	2	10	...	6	2	...	..	72	...	1	...	...	...	23	1	2		...	...	...	...	208	269	748
Royapuram ...	1130	45	65	4	1	...	6	8	6	...	14	...	2	...	32	...	1	2	...	...	78	...	...	31	1	...	...	...	186	313	586
Perambure ...	1237	52	37	3	...	9	1	11	...	1	9	...	1	...	19	1	2	...	...	...	11	1	...	22	...	...	...	...	130	230	825
Egmore ...	1084	26	24	3	...	20	1	32	3	...	10	1	...	...	36	...	3	1	...	...	3	...	...	...	...	...	...	...	137	109	812
Royapettah ...	752	23	18	1	1	1	...	12	2	...	2	1	4	...	14	...	...	2	...	...	10	...	...	14	...	...	...	...	82	69	578
Choolai ...	1229	36	36	6	...	40	1	...	...	...	13	3	6	...	91	...	3	3	...	...	9	1	..	25	...	...	1	5	243	80	870
Total ...	14,948	501	379	82	24	165	49	160	28	1	156	29	29	2	533	31	49	36	2		258	3	2	227	3	42	1	5	2,126	2,223	10,098

STATEMENT No. IX.

Showing the number of cases taken on for milk supply during the year 1934.

Centres	No. taken on for milk supply	Yearly attendance	Average daily attendance.
Triplicane ...	42	6,989	19·1
Washermanpet ...	39	9,382	25·7
Purasawalkam ...	46	7,003	19·1
George Town ...	39	8,719	23·8
Nungambakkam ...	48	6,554	17·9
Mirsahibpet ...	64	5,340	14·6
Muthialpet ...	37	9,156	25·0
Royapuram ...	31	5,841	16·0
Egmore ...	19	5,571	15·2
Perambure ...	60	10,715	29·3
Royapettah ...	25	5,910	16·1
Choolai ...	29	5,193	14.2
Total	479	86,373	236·6

STATEMENT No. X.

Showing the number of children who were given free baths during the year 1934.

Centres.	New admissions.	No. of baths given to babies.	Average daily attendance.
Triplicane ...	117	6,280	17·2
Washermanpet ...	95	9,514	26·0
Prusawalkam ...	155	7,348	20·1
George Town ...	70	4,827	13·2
Nungambakkam ...	273	8,895	24·3
Mirsahibpet ...	165	4,403	12·0
Muthialpet ...	42	4,891	13·4
Royapuram ...	165	8,176	22·3
Perambure ...	264	7,265	19·9
Egmore ...	511	5,319	14·5
Royapettah ...	75	6,376	17·4
Choolai ...	109	5,143	14·0
Total ...	2,041	78,437	2,14·8

STATEMENT No. XI.

Showing the details of Health Propaganda Work done by the C. W. Staff in 1934.

Centres.	No. of out-door lectures delivered.	No. of lectures with the aid of Cinema shows	No. of lectures with the aid of Magic Lantern.	Total attendance at the lectures.	Small-pox.	Story of Jani Bee & Chand Bee.	Saving the race.	Malaria.	Typhoid.	Tuberculosis.	Maternity and Child welfare.	Personal hygiene.	Domestic hygiene.	Cholera.	Hookworm.	Leprosy.	Mosquitoes.	Water-supply.	Plague.	Round worms.	Other diseases.	Ventilating houses.	Flies.	Insects and diseases.	Breast fed baby.	General sanitation.	Infant feeding.	Child welfare.	Care of infants.	Ante natal care.	Dental care.	Story of Seetha and Nagamma.	Lost and found.	Dysentery.	Filaria.	Total.
Triplicane ...	27	6	19	2,630	2	...	2	2	...	2	5	1	2	3	4	1	...	1	...	...	18	1	2	...	1	2	...	...	1	...	...	...	2	...	...	52
Washermanpet ...	19	...	20	1,557	2	1	...	3	...	4	5	...	2	4	...	...	...	4	...	...	...	1	1	1	...	2	3	...	1	...	4	1	...	...	...	39
Purasawalkam ...	25	...	22	2,467	4	1	...	6	...	4	2	4	2	5	3	2	1	1	...	...	...	3	6	...	...	3	...	...	...	...	...	...	...	...	...	47
George Town ...	24	...	24	1,794	4	...	...	6	...	5	6	2	5	8	1	...	2	2	...	...	2	...	5	...	...	...	...	...	...	...	...	...	...	...	...	48
Nungambakkam ...	27	4	24	2,603	2	...	...	4	2	2	5	2	1	5	3	3	...	3	1	1	3	1	5	2	...	3	...	...	...	...	3	...	1	2	1	55
Mirsahibpet ...	25	2	21	1,505	2	...	...	7	...	5	1	...	...	6	1	1	1	1	1	...	17	...	5	...	...	...	...	...	...	...	...	...	...	...	...	48
Muthialpet ...	29	3	20	2,463	5	...	...	3	...	4	...	8	1	6	2	1	...	...	...	...	...	...	...	...	...	6	...	5	4	6	...	...	1	...	...	52
Royapuram ...	26	...	17	1,695	4	...	...	2	...	2	3	7	1	4	2	5	...	...	...	2	4	...	5	...	...	...	...	...	...	...	...	2	...	...	...	43
Perambure ...	24	...	23	2,483	6	...	...	2	...	...	4	2	1	4	4	1	4	5	...	...	...	1	6	2	...	2	1	...	...	2	...	...	...	...	...	47
Egmore ...	29	...	25	1,635	5	...	...	5	1	4	5	4	1	4	...	...	5	7	...	3	...	...	9	...	...	...	...	...	...	...	...	...	...	1	...	54
Royapettah ...	25	5	21	2,212	3	...	...	4	1	3	...	4	3	5	1	2	...	4	...	1	5	2	3	1	...	3	...	3	1	...	...	...	2	...	...	51
Choolai ...	24	...	21	2,115	2	...	...	4	1	4	2	4	1	2	2	4	2	5	...	...	2	3	5	...	...	1	...	...	...	...	1	...	...	...	...	45
Total ...	304	20	257	25,159	41	2	2	48	5	39	38	38	20	56	23	20	15	33	2	7	51	12	52	6	1	22	4	8	7	8	7	4	6	3	1	58

STATEMENT No. XII.

Showing the Births, Infantile Mortality and Infantile Mortality rate during 1934 and Infantile Mortality rate from 1930 to 1933.

Divisions.	1934				Infantile Mortality rate for			
	No. of births registered Excluding still Births.	Still births.	Infantile Mortality.	Infantile mortality rate.	1933	1932	1931	1930
1	853	30	224	262·6	292·9	254·8	322·6	247·6
2	1331	89	293	220·1	303·4	256·3	232·3	227·1
3	1265	54	355	280·6	312·4	258·9	247·7	235·2
4	1202	75	314	261·2	313·2	225·1	300·3	283·3
5	317	22	84	265·0	327·5	335·5	366·0	317·1
6	456	24	83	182·0	209·8	258·1	239.8	259·5
7	561	29	130	231·7	261·0	196·4	229·1	212·7
8	184	6	53	288·0	302·9	270·2	357·5	241·4
9	801	42	170	212·2	253·6	223·4	213·2	250·6
10	802	35	197	245·6	292·7	273·7	245·3	248·3
11	186	4	41	220·4	302·0	333·3	286·5	288·0
12	921	52	213	231·3	306·9	257·1	245·1	263·7
13	671	27	179	266·8	271·6	257·1	279·4	302·0
14	114	4	27	236·8	283·2	310·6	287·0	357·8
15	656	19	159	231·8	250·4	242·9	259·3	284·8
16	1926	59	450	233·6	244·5	198·0	276·0	233·2
17	1375	60	360	261·0	252·0	285·1	244·4	274·0
18	1142	34	249	218·0	272·8	230·9	265·1	243·3
19	820	37	188	229·3	232·4	241·9	260·3	234·6
20	1585	124	333	210·0	198·6	180·4	178·0	211·4
21	949	51	181	190·7	185·5	184·0	217·9	198·0
22	1069	55	213	199·1	231·3	170·0	227·9	204·9
23	1259	57	278	220·8	261·6	259·9	257·2	258·5
24	1523	56	312	204·9	246·9	247·6	207·9	259·3
25	845	57	158	187·0	210.1	206·6	207·5	223·6
26	730	47	162	221·9	265.5	229·1	241·1	249·3
27	866	28	202	233·2	314·5	249·7	278·5	269·2
28	1430	88	350	244·8	343·2	252·5	272·3	260·9
29	1427	77	319	222·1	234.5	235·6	233·1	208·5
30	853	36	147	172·3	275·0	230·8	259·1	237·1
Total	28,149	1,378	6,424	228·2	264·3	236·5	248·3	248·3
			General death rate ...	36·5	37·9	34·4	35·8	43·2

STATEMENT No. XIII.

Table showing details of all Births in the Municipal Divisions in which the Scheme was working for one year ending with 31st December 1934.

Centres.	Municipal Divisions.	Total No. of Births from 1-1-34 to 31-12-34.	No. of Cases conducted by the Corporation Mid-wives.	Percentage to total Births.				
				1934	1933	1932	1931	1930
Royapuram ...	1	853	405	47·4	38·1	57·2	43·6	58·8
	2	1,331	567	42·5	38·9	51·1	38·6	50·7
Washermanpet ...	3	1,265	707	55·8	49·4	70·3	53·6	47·0
	4	1,202	523	43·5	40·0	54·6	37·7	36·0
Muthialpet	5	317	209	65·9	64·3	73·1	55·8	54·9
	6	456	136	29·8	30·5	38·1	27·8	33·5
	7	561	326	58·2	62·6	78·7	58·1	74·4
	9	801	346	43·1	42·2	47·9	38·7	49·0
George Town ...	8	184	63	34·2	34·2	39.4	30·1	29·3
	10	802	434	54·1	59·7	66·3	57·6	50·8
	11	186	19	10·2	11·3	11·8	5·4	8.3
	12	921	463	50·2	47·7	61·3	52·3	44·5
	13	671	334	49·7	47·2	60·2	45·5	45·2
	14	114	31	27·1	26·5	50·4	32·2	31·1
	15	656	211	33·6	35·1	44·1	28·5	29·1
Perambure ...	16	1,926	996	51·7	48·9	61·5	48·2	45·5
Choolai ...	17	1,375	743	54·8	50·6	59·2	45·4	12·5
	19	820	321	39·1	33·8	43·7	27·6	5·9
Purasawalkam ...	18	1,142	650	56·9	58·1	61·3	49·1	39·5
	21	949	374	39·4	41·8	51·8	33·8	28·4
Egmore	20	1,585	333	21·0	23·5	25·8	19·2	16·5
	23	1,259	366	28·10	34·2	46·4	29·5	32·1
Nungambakam ...	22	1,069	379	34·5	29·9	60·3	41·4	39·3
Triplicane ...	24	1,523	877	57·5	55·1	62·0	54.2	65·5
	25	845	296	35·0	37·5	42·7	37·9	46·5
	27	866	411	47·4	46·3	48·7	48·4	51·5
Mirsahibpet ...	26	730	179	24·5	26·1	32·7	24·3	34·4
	28	1,430	725	50·6	49·5	60·2	44·7	58·3
	30	853	354	41·5	37·0	52·9	28·9	42·9
Royapettah ...	29	1,427	477	33·4	37·3	59·6	37·8	50·3
Total ...		28,149	12,257	43·5	42·5	42·06	40·6	41·39